

DIABETES

LITERATURE INDEX

NATIONAL INSTITUTE OF ARTHRITIS, METABOLISM, AND DIGESTIVE DISEASES

**U.S. DEPARTMENT OF
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DIABETES LITERATURE INDEX

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CONTENTS

	<i>Page</i>
PREFACE	iv
EDITORIAL NOTE	v
HIERARCHICAL INDEX	
Arrangement of the HIERARCHICAL INDEX	2269
MEDLARS Terms Included in HIERARCHICAL INDEX	2271
KEYWORD INDEX	2319
AUTHOR INDEX	2419

PREFACE

Diabetes Literature Index is a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases which has been prepared from MEDLARS (Medical Literature Analysis and Retrieval System) tapes furnished by the National Library of Medicine. This specialized information medium is being published to fill an existing great need in the field of diabetes and to assist the Institute in meeting its obligations to foster and support laboratory and clinical research into the nature, causes, and therapy for diabetes. Publication of *Diabetes Literature Index* makes available an index of all current scientific papers relevant to this field from the world literature.

It is hoped that the issuing of *Diabetes Literature Index* under the auspices of the National Institute of Arthritis, Metabolism, and Digestive Diseases will provide a much needed current awareness tool to scientists and will facilitate greater integration of research and clinical efforts in this field. *Diabetes Literature Index* has been published monthly since January 1966 and is cumulated at the end of each calendar year.

This publication is available free to National Institutes of Health grantees and contractors working in the field of diabetes, and libraries of medical schools. Requests from these *qualified* individuals to receive free copies of this publication must include their grant or contract number and the title of their project. These requests as well as address changes and other communications from these qualified recipients of free copies should be addressed to:

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National Institute of Arthritis,
Metabolism, and Digestive Diseases
Building 31, Room 9A-03
Bethesda, Maryland 20014

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The Secretary of the Department of Health, Education, and Welfare has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through April 30, 1978

EDITORIAL NOTE

Diabetes Literature Index, a publication of the National Institute of Arthritis, Metabolism, and Digestive Diseases (NIAMDD), was brought about through the cooperative efforts of two divisions of the National Institutes of Health (NIAMDD and the National Library of Medicine), a professional society (American Diabetes Association), three Universities (University of Minnesota, University of Rochester, and Case Western Reserve University) as well as a number of individual scientists. In this rather unique cooperative project, initiated in 1958, duplication of effort has been reduced to a minimum. The digital information generated from the original input of bibliographic citations to the National Library of Medicine's MEDLARS system is processed by computer in several different ways and ultimately used to compose the final printed pages of this *Diabetes Literature Index*.

Each month the MEDLARS magnetic tape furnished by the National Library of Medicine (NLM) is used for identification of the diabetes related literature. All bibliographic citations classified under subject headings which we have designated as Priority I, represent articles that are 100% diabetes-related; they are automatically copied onto a new magnetic tape and constitute over seventy percent of the citations appearing in this index. The citations appearing under Priority II and III are subject headings which include both diabetes-related and unrelated articles; these are printed on cards by the computer. The diabetes related citations are identified manually and the corresponding digital information is added to the next month's Priority I magnetic tape.

In the selection of this bibliography, diabetes-related literature has been defined in a rather arbitrary but broad, comprehensive manner with a view toward providing the widest possible coverage of related areas. To this end the following subjects have been included: the Islets of Langerhans in the pancreas, including their structure and pathologic alterations; insulin, its properties, assay, synthesis, release or degradation; the direct and indirect effects of insulin on target organs; blood glucose level, hyper- and hypo-glycemia; insulin antibodies and insulin resistance; insulin allergy; recent developments in intermediary metabolism; experimental and clinical aspects of diabetes, signs, symptoms, diagnosis, treatment, complications, and associated condi-

tions. Also included are other hormones and agents whose effects are similar, opposite, synergistic or antagonistic to insulin, either in their primary or secondary effects on target organs. It should be noted that there are undoubtedly some omissions due to the empirical definition of the diabetes-related literature which was adopted and also to the difficulties attendant in preparing such a large-scale bibliography by machine.

The *Diabetes Literature Index* is published in three formats: a hierarchical subject index, a key word in title index, and an author index. The magnetic tape version of these indexes, prepared at the University of Minnesota, is used to generate the copy for offset printing by the Government Printing Office on their Linotron.

Hierarchical Subject Index: This index differs from *Index Medicus* in that related terms are grouped together in a hierarchical relationship. Thus, all citations which are indexed under blood sugar, glucose tolerance, hyperglycemia, hypoglycemia, and glycosuria are grouped under the general heading "blood sugar, urine sugar and related topics." In both the Diabetes Key Word Index and in *Index Medicus* these terms are arranged alphabetically, and the corresponding citations are distributed at many different page locations. In some instances where only a few citations appear under several similar subject headings, these are grouped together under a more generic term; at times, a new non-MEDLARS index term is created to cover these groupings of subject headings. In some instances where many citations appear under a single subject heading, these are subdivided by using subheadings.

Although the hierarchical subject index is, in a sense, a miniaturized version of *Index Medicus* (dealing with the core diabetes literature) it provides a much greater depth of indexing. Many relevant citations included in the *Diabetes Literature Index* do not appear under the corresponding subject headings in *Index Medicus*; because of space limitations, only two or three of the ten or more index terms included on the MEDLARS magnetic tape are used in the printed version of *Index Medicus*. At times the reason why a given citation appears under a specific subject heading may not be apparent from the article title. However, examination of the list of index terms for this citation (included in the Author Index under

the principal author) will give the basis for this inclusion.

Beginning with the January 1971 issue, two sections are included in the Hierarchical Subject Index. In *Section 1*, "Diabetes Mellitus and Related Topics," the major subdivisions include the MEDLARS terms: Islets of Langerhans, Pancreas, Insulin, Glucagon, Blood and Urine Sugar; the subsection on "Diabetes," (Section 1.F) is extensively subdivided and many subheadings are used. In *Section 2*, "Endocrinology" is divided into subsections dealing with the individual endocrine glands. Hierarchical subject indexes related to Biochemistry and the organ systems (included in the experimental issues, published in February and March, 1969) are not included at this time; terms related to these subjects are, however, included in the Keyword Index.

A list of the subject headings included in the tree structure of the hierarchy (with their corresponding index numbers) and an alphabetic cross index of these subject headings is printed immediately preceding the Hierarchical Subject Index.

Key Word Index: For all of the diabetes-related literature chosen, key words in the title are identified by the computer and an expanded magnetic tape is prepared, listing the complete bibliographic citation under each key word. Most editorial decisions are made by the computer-disk-look-up-program using a master list of terms. Trivial words are deleted and specific word combinations are also selected. Abbreviations and word variant forms are replaced by the more commonly used key word. Inconsistencies between the British and American spellings are eliminated. In no case, however, is a change made within the title itself. Words which have not ap-

peared previously in the system are identified by the computer program and flagged for human decision.

With the publication of the hierarchical subject index, the key word index has been shortened. Diabetes is not included as a term in the key word index as it is covered in great detail in the hierarchical subject index. Although users may find the hierarchical subject index more useful for coverage of their broad interests, the key word index is advantageous in locating citations dealing with very specific terms—for example those relating to biochemistry or the organ systems. The key word index is of special value in locating citations dealing with the frontiers of diabetes research, for new terms appearing in the title are immediately included in the key word index.

Author Index: Because of space limitations, the printed version of *Index Medicus* excludes all but the first three authors in multiple author publications. However since the last author is often the best known, this name may be the most useful for reference or retrieval; therefore, all authors are included in the Diabetes Literature Author Index. These are automatically identified by the computer program and an alphabetized magnetic tape is prepared in which the complete bibliographic citation is included under each author. In addition, all of the index terms used by the NLM for each citation are listed under the principal author, thus providing an overview of the subject content of the article.

Users planning to systematically cover all articles appearing in a given month may do so by scanning the author index, limiting their perusal to the principal author, i.e., those citations which contain the MEDLARS index terms.

Arrangement of the Hierarchical Index

I	SECTION 1. DIABETES MELLITUS AND RELATED TOPICS	I.E.3.5	HYPERGLYCEMIA, DRUG THERAPY
I.A	ISLANDS OF LANGERHANS	I.E.3.6	HYPERGLYCEMIA, ETIOLOGY
I.A.1	ISLANDS OF LANGERHANS, ANATOMY RELATED	I.E.3.7	HYPERGLYCEMIA, METABOLISM
I.A.2	ISLANDS OF LANGERHANS, BIOCHEMISTRY RELATED	I.E.3.8	HYPERGLYCEMIA, PHYSIOPATHOLOGY
I.A.3	ISLANDS OF LANGERHANS, PHYSIOLOGY RELATED	I.E.3.9	HYPERGLYCEMIA, URINE
I.A.4	ISLANDS OF LANGERHANS, PHARMACOLOGY RELATED	I.E.4	GLYCOSURIA
I.A.5	ISLANDS OF LANGERHANS, PATHOLOGY RELATED	I.E.4.1	GLYCOSURIA, CHEMICALLY INDUCED
I.B	PANCREAS	I.E.4.2	GLYCOSURIA, COMPLICATIONS
I.B.1	PANCREAS, ANATOMY RELATED	I.E.4.3	GLYCOSURIA, DIAGNOSIS
I.B.2	PANCREAS, BIOCHEMISTRY RELATED	I.E.4.4	GLYCOSURIA, DRUG THERAPY
I.B.3	PANCREAS, PHYSIOLOGY RELATED	I.E.4.5	GLYCOSURIA, ENZYMOLOGY
I.B.4	PANCREAS, PHARMACOLOGY RELATED	I.E.4.6	GLYCOSURIA, ETIOLOGY
I.B.5	PANCREAS, PATHOLOGY RELATED	I.E.4.7	GLYCOSURIA, METABOLISM
I.B.6	PANCREAS, SURGERY RELATED	I.E.4.8	GLYCOSURIA, OCCURRENCE
I.B.6.1	PANCREAS, TRANSPLANTATION	I.E.5	GLYCOSURIA, RENAL
I.B.6.2	PANCREATECTOMY	I.E.6	HYPOGLYCEMIA
I.C	INSULIN	I.E.6.1	HYPOGLYCEMIA, BLOOD
I.C.1	INSULIN, BIOCHEMISTRY RELATED	I.E.6.2	HYPOGLYCEMIA, CHEMICALLY INDUCED
I.C.1.1	INSULIN, ISOLATION AND PURIFICATION	I.E.6.3	HYPOGLYCEMIA, COMPLICATIONS
I.C.1.2	INSULIN, ANALYSIS	I.E.6.4	HYPOGLYCEMIA, DIAGNOSIS
I.C.1.3	INSULIN, CHEMICAL SYNTHESIS	I.E.6.5	HYPOGLYCEMIA, DRUG THERAPY
I.C.1.4	INSULIN, BIOSYNTHESIS	I.E.6.6	HYPOGLYCEMIA, ETIOLOGY
I.C.1.5	INSULIN, METABOLISM	I.E.6.7	HYPOGLYCEMIA, METABOLISM
I.C.1.6	INSULIN, BLOOD	I.E.6.8	HYPOGLYCEMIA, PHYSIOPATHOLOGY
I.C.1.7	INSULIN, URINE	I.E.6.9	HYPOGLYCEMIA, THERAPY
I.C.2	INSULIN, PHYSIOLOGY RELATED	I.F	DIABETES
I.C.2.1	INSULIN, PHYSIOLOGY	I.F.1	ALLOXAN DIABETES (SEE SEC. I.F.10.2)
I.C.2.2	INSULIN, SECRETION	I.F.2	DIABETES MELLITUS
I.C.3	INSULIN, PHARMACOLOGY RELATED	I.F.2.1	DIABETES MELLITUS, JUVENILE
I.C.3.1	INSULIN, PHARMACODYNAMICS	I.F.3	DIABETES, BIOCHEMISTRY RELATED
I.C.3.2	INSULIN, ANTAGONISTS AND INHIBITORS	I.F.3.1	DIABETES, METABOLISM
I.C.3.3	INSULIN, ADVERSE EFFECTS	I.F.3.2	DIABETES, ENZYMOLOGY
I.C.4	HYPERINSULINISM	I.F.3.3	DIABETES, BLOOD
I.C.4.1	INSULIN COMA	I.F.3.4	DIABETES, URINE
I.C.5	INSULIN ANTIBODIES	I.F.4	DIABETES, PHYSIOPATHOLOGY
I.C.6	INSULIN RESISTANCE	I.F.5	DIABETES, IMMUNOLOGY
I.C.7	INSULIN, THERAPY RELATED	I.F.6	DIABETES COMPLICATIONS AND PATHOLOGY
I.C.7.1	INSULIN, DIAGNOSTIC USE	I.F.6.1	DIABETIC KETOACIDOSIS
I.C.7.2	INSULIN ADMINISTRATION AND DOSAGE (SEE I.F.9.3.1)	I.F.6.1.1	ACIDOSIS, DIABETIC
I.C.7.3	INSULIN, THERAPEUTIC USE (SEE I.F.9.3.2)	I.F.6.1.2	DIABETIC COMA
I.C.8	INSULIN, HISTORY	I.F.6.2	DIABETIC ANGIOPATHIES
I.D	GLUCAGON	I.F.6.3	DIABETIC NEPHROPATHIES
I.D.1	GLUCAGON, BIOCHEMISTRY RELATED	I.F.6.4	DIABETIC NEUROPATHIES
I.D.1.1	GLUCAGON, ANALYSIS	I.F.6.5	DIABETIC RETINOPATHY
I.D.1.2	GLUCAGON, METABOLISM	I.F.6.6	OTHER COMPLICATIONS OF DIABETES
I.D.1.3	GLUCAGON, BLOOD	I.F.6.7	DIABETES PATHOLOGY
I.D.2	GLUCAGON, PHYSIOLOGY RELATED	I.F.6.8	PREGNANCY IN DIABETES
I.D.2.1	GLUCAGON, PHYSIOLOGY	I.F.7	DIABETES OCCURRENCE, ETIOLOGY AND RELATED TERMS
I.D.2.2	GLUCAGON, SECRETION	I.F.7.1	DIABETES, OCCURRENCE
I.D.3	GLUCAGON, PHARMACOLOGY RELATED	I.F.7.2	DIABETES, ETIOLOGY
I.D.3.1	GLUCAGON, ADMINISTRATION AND DOSAGE	I.F.7.3	DIABETES, CONGENITAL
I.D.3.2	GLUCAGON, PHARMACODYNAMICS	I.F.7.4	DIABETES, FAMILIAL AND GENETIC
I.D.3.3	GLUCAGON, TOXICITY	I.F.7.5	PREDIABETIC STATE
I.D.4	GLUCAGON, THERAPY RELATED	I.F.8	DIABETES, DIAGNOSIS RELATED
I.D.4.1	GLUCAGON, DIAGNOSTIC USE	I.F.8.1	GLUCOSE TOLERANCE TEST (SEE SEC. I.E.2)
I.D.4.2	GLUCAGON, THERAPEUTIC USE	I.F.8.2	DIABETES, DIAGNOSIS
I.E	BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS	I.F.9	DIABETES, THERAPY RELATED
I.E.1	BLOOD SUGAR	I.F.9.1	DIABETES, PREVENTION AND CONTROL
I.E.1.1	BLOOD SUGAR, ANALYSIS	I.F.9.2	DIABETES, NUTRITION AND DIET THERAPY
I.E.1.2	BLOOD SUGAR, BIOSYNTHESIS	I.F.9.2.1	OBESITY IN DIABETES
I.E.1.3	BLOOD SUGAR, METABOLISM	I.F.9.2.2	GLUCOSE, THERAPEUTIC USE
I.E.1.4	BLOOD SUGAR, PHARMACODYNAMICS	I.F.9.2.3	DIET
I.E.2	GLUCOSE TOLERANCE TEST	I.F.9.2.4	DIABETIC DIET
I.E.3	HYPERGLYCEMIA	I.F.9.2.5	DIETARY CARBOHYDRATES
I.E.3.1	HYPERGLYCEMIA, BLOOD	I.F.9.2.6	DIETARY FATS
I.E.3.2	HYPERGLYCEMIA, CHEMICALLY INDUCED	I.F.9.2.7	CYCLAMATES
I.E.3.3	HYPERGLYCEMIA, COMPLICATIONS	I.F.9.2.8	SACCHARIN
I.E.3.4	HYPERGLYCEMIA, DIAGNOSIS	I.F.9.3	DIABETES, INSULIN AND THERAPY

Arrangement of the Hierarchical Index

1.F.9.3.1	INSULIN, ADMINISTRATION AND DOSAGE	2.G.2.6	JUVENILE HORMONES
1.F.9.3.2	INSULIN, THERAPEUTIC USE	2.G.3	CHROMAFFIN SYSTEM
1.F.9.4	DIABETES, ANTIDIABETICS AND THERAPY	2.G.4	PINEAL BODY
1.F.9.4.1	ANTIDIABETICS	2.G.5	PITUITARY-ADRENAL SYSTEM
1.F.9.4.2	TOLBUTAMIDE	2.G.6	SECRETORY RATE
1.F.9.4.3	OTHER SULFONYL-UREA DERIVATIVES		
1.F.9.4.4	PHENFORMIN		
1.F.9.4.5	OTHER BIGUANIDES		
1.F.9.5	DIABETES DRUG THERAPY		
1.F.9.6	DIABETES THERAPY		
1.F.9.7	DIABETES, RADIOGRAPHY		
1.F.9.8	DIABETES, SURGERY		
1.F.9.9	DIABETES, MORTALITY		
1.F.10	DIABETES, EXPERIMENTAL		
1.F.10.1	DIABETES, CHEMICALLY INDUCED		
1.F.10.2	ALLOXAN DIABETES		
1.F.10.2.1	ALLOXAN DIABETES, BLOOD		
1.F.10.2.2	ALLOXAN DIABETES, DRUG THERAPY		
1.F.10.2.3	ALLOXAN DIABETES, ENZYMOLOGY		
1.F.10.2.4	ALLOXAN DIABETES, METABOLISM		
1.F.10.2.5	ALLOXAN DIABETES, PATHOLOGY		
1.F.10.2.6	ALLOXAN DIABETES, PHYSIOPATHOLOGY		
1.F.11	DIABETES, VETERINARY		
1.F.12	DIABETES, HISTORY		
2	SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS		
2.A	ENDOCRINE PANCREAS		
2.A.1	ISLETS (SEE SEC. 1.A)		
2.A.2	INSULIN (SEE SEC. 1.C)		
2.A.3	GLUCAGON (SEE SEC. 1.D)		
2.B	ADRENAL GLANDS		
2.B.1	ADRENAL CORTEX		
2.B.2	ADRENAL CORTEX HORMONES		
2.B.2.1	GLUCOCORTICOIDS		
2.B.2.1.1	CORTISONE		
2.B.2.1.2	HYDROCORTISONE		
2.B.2.1.3	OTHER GLUCOCORTICOIDS		
2.B.2.2	MINERALOCORTICOIDS		
2.B.3	ADRENAL MEDULLA		
2.B.3.1	EPINEPHRINE		
2.B.3.2	NOREPINEPHRINE		
2.B.4	ADRENALECTOMY		
2.B.5	ADRENAL DISORDERS		
2.C	THYROID GLAND		
2.C.1	THYROID HORMONES		
2.C.2	THYROID ANTAGONISTS		
2.C.3	THYROID DISORDERS		
2.D	PARATHYROID GLANDS		
2.E	PITUITARY GLAND		
2.E.1	PITUITARY HORMONES, ANTERIOR		
2.E.1.1	CORTICOTROPIN		
2.E.1.2	SOMATOTROPIN		
2.E.1.3	THYROTROPIN		
2.E.1.4	GONADOTROPINS, PITUITARY		
2.E.2	PITUITARY HORMONES, POSTERIOR		
2.E.3	PITUITARY HORMONES, INTERMEDIATE		
2.E.4	PITUITARY HORMONE RELEASING FACTORS		
2.E.5	HYPOPHYSECTOMY		
2.E.6	PITUITARY DISORDERS		
2.F	GONADS		
2.F.1	OVARY		
2.F.2	TESTIS		
2.F.3	SEX HORMONES		
2.F.3.1	ANDROGENS		
2.F.3.2	ESTROGENS		
2.F.3.3	CORPUS LUTEUM AND PROGESTATIONAL HORMONES		
2.F.3.3.1	CORPUS LUTEUM HORMONES		
2.F.3.3.2	PROGESTATIONAL HORMONES		
2.F.3.4	CONTRACEPTIVES, ORAL		
2.F.4	GONADAL DISORDERS		
2.G	OTHER ENDOCRINES AND RELATED TERMS		
2.G.1	ENDOCRINE GLANDS		
2.G.2	HORMONES		
2.G.2.1	GASTROINTESTINAL HORMONES		
2.G.2.2	PROSTAGLANDINS		
2.G.2.3	HORMONES, ECTOPIC		
2.G.2.4	PLACENTAL HORMONES		
2.G.2.5	RELAXIN		

MEDLARS Terms Included in Hierarchical Index

ACETOHEXAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ACIDOSIS	1.F.6.1.1 ACIDOSIS, DIABETIC	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ACIDOSIS, DIABETIC	1.F.6.1.1 ACIDOSIS, DIABETIC	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ACROMEGALY	2.E.6 PITUITARY DISORDERS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
ADDISON'S DISEASE	2.B.5 ADRENAL DISORDERS	SURGERY	1.F.9.8 DIABETES, SURGERY
ADRENAL CORTIX HORMONES	2.B.2 ADRENAL CORTEX HORMONES	THERAPY	1.F.9.6 DIABETES THERAPY
ADRENAL GLAND HYPERFUNCTION	2.B.5 ADRENAL DISORDERS	URINE	1.F.3.4 DIABETES, URINE
ADRENAL GLAND HYPOFUNCTION	2.B.5 ADRENAL DISORDERS	VETERINARY	1.F.11 DIABETES, VETERINARY
ADRENAL GLANDS	2.B. ADRENAL GLANDS	DIABETES MELLITUS, JUVENILE	1.F.2.1 DIABETES MELLITUS, JUVENILE
ADRENAL MEDULLA	2.B.3 ADRENAL MEDULLA	BLOOD	1.F.3.3 DIABETES, BLOOD
ADRENALECTOMY	2.B.4 ADRENALECTOMY	CHEMICALLY INDUCED	1.F.10.1 DIABETES, CHEMICALLY INDUCED
ADRENOGENITAL SYNDROME	2.F.4 GONADAL DISORDERS	COMPLICATIONS	1.F.6.6 OTHER COMPLICATIONS OF DIABETES
	2.B.5 ADRENAL DISORDERS	CONGENITAL	1.F.7.3 DIABETES, CONGENITAL
	2.B.2.2 MINERALOCORTICIDS	DIAGNOSIS	1.F.8.2 DIABETES, DIAGNOSIS
ALDOSTERONE	1.F.10.2 ALLOXAN DIABETES	DRUG THERAPY	1.F.9.5 DIABETES DRUG THERAPY
ALLOXAN DIABETES	1.F.10.2.1 ALLOXAN DIABETES, BLOOD	ENZYMOLOGY	1.F.3.2 DIABETES, ENZYMOLOGY
BLOOD	1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY	ETIOLOGY	1.F.7.2 DIABETES, ETIOLOGY
DRUG THERAPY	1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY	FAMILIAL & GENETIC	1.F.7.4 DIABETES, FAMILIAL AND GENETIC
ENZYMOLOGY	1.F.10.2.4 ALLOXAN DIABETES, METABOLISM	HISTORY	1.F.12 DIABETES, HISTORY
METABOLISM	1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY	IMMUNOLOGY	1.F.5 DIABETES, IMMUNOLOGY
PATHOLOGY	1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY	METABOLISM	1.F.3.1 DIABETES, METABOLISM
PHYSIOPATHOLOGY	1.F.6.8 PREGNANCY IN DIABETES	MORTALITY	1.F.9.9 DIABETES, MORTALITY
	2.F.3.1 ANDROGENS	OCCURRENCE	1.F.7.1 DIABETES, OCCURRENCE
AMNIOCENTESIS	2.F.3.1 ANDROGENS	PATHOLOGY	1.F.6.7 DIABETES PATHOLOGY
ANABOLIC STEROIDS	2.F.3.1 ANDROGENS	PHYSIOPATHOLOGY	1.F.4 DIABETES, PHYSIOPATHOLOGY
ANDROGENS	2.F.3.1 ANDROGENS	PREVENTION & CONTROL	1.F.9.1 DIABETES, PREVENTION AND CONTROL
ANDROSTERONE	2.B.2.1.3 OTHER GLUCOCORTICIDS	RADIOGRAPHY	1.F.9.7 DIABETES, RADIOGRAPHY
	1.F.9.4.1 ANTIDIABETICS	SURGERY	1.F.9.8 DIABETES, SURGERY
ANTIDIABETICS	1.F.6.8 PREGNANCY IN DIABETES	THERAPY	1.F.9.6 DIABETES THERAPY
APGAR SCORE	1.F.6.2 DIABETIC ANGIOPATHIES	URINE	1.F.3.4 DIABETES, URINE
ARTERIOSCLEROSIS	2.B.2.1.3 OTHER GLUCOCORTICIDS	VETERINARY	1.F.11 DIABETES, VETERINARY
BETAMETHASONE	1.F.9.4.5 OTHER BIGUANIDES	DIABETIC ANGIOPATHIES	1.F.6.2 DIABETIC ANGIOPATHIES
BIGUANIDES	1.E.1 BLOOD SUGAR	DIABETIC COMA	1.F.6.1.2 DIABETIC COMA
BLOOD SUGAR	1.E.1.1 BLOOD SUGAR, ANALYSIS	DIABETIC DIET	1.F.9.2.4 DIABETIC DIET
ANALYSIS	1.E.1.2 BLOOD SUGAR, BIOSYNTHESIS	DIABETIC NEPHROPATHIES	1.F.6.3 DIABETIC NEPHROPATHIES
BIOSYNTHESIS	1.E.1.3 BLOOD SUGAR, METABOLISM	DIABETIC NEUROPATHIES	1.F.6.4 DIABETIC NEUROPATHIES
METABOLISM	1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS	DIABETIC RETINOPATHY	1.F.6.5 DIABETIC RETINOPATHY
PHARMACODYNAMICS	2.C.1 THYROID HORMONES	DIET	1.F.9.2.3 DIET
CALCITONIN	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIET, ATHEROGENIC	1.F.9.2.3 DIET
CARBUTAMIDE	2.F.3.3.2 PROGESTATIONAL HORMONES	DIET, REDUCING	1.F.9.2.3 DIET
CHLORMADINONE	2.F.3.2 ESTROGENS	DIETARY CARBOHYDRATES	1.F.9.2.5 DIETARY CARBOHYDRATES
CHLOROTRIANISONE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES	DIETARY FATS	1.F.9.2.6 DIETARY FATS
CHLORPROPAMIDE	2.G.2.1 GASTROINTESTINAL HORMONES	DIETHYLSTILBESTROL	2.C.1 THYROID HORMONES
CHOLECYSTOKININ	1.F.9.2.6 DIETARY FATS	DIODOTYROSINE	2.F.3.1 ANDROGENS
CHOLESTEROL, DIETARY	2.G.3 CHROMAFFIN SYSTEM	DROMOSTANOLONE	2.E.6 PITUITARY DISORDERS
CHROMAFFIN SYSTEM	2.F.3.4 CONTRACEPTIVES, ORAL	DWARFISM, PITUITARY	2.F.3.3.2 PROGESTATIONAL HORMONES
CONTRACEPTIVES, ORAL	1.F.6.2 DIABETIC ANGIOPATHIES	DYDROGESTERONE	2.G.2 HORMONES
CORONARY DISEASE	2.F.1 OVARY	ECDSONE	2.G.1 ENDOCRINE GLANDS
CORPUS LUTEUM	2.F.3.3.1 CORPUS LUTEUM HORMONES	ENDOCRINE DISEASES	2.G.1 ENDOCRINE GLANDS
CORPUS LUTEUM HORMONES	2.B.2.1.3 OTHER GLUCOCORTICIDS	ENDOCRINE GLANDS	2 SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS
CORTICOSTERONE	2.E.1.1 CORTICOTROPIN	ENDOCRINE SYSTEM (NON MESH)	
CORTICOTROPIN	2.E.4 PITUITARY HORMONE RELEASING FACTORS		
CORTICOTROPIN RELEASING HORMONE	2.B.2.1.1 CORTISONE	EPINEPHRINE	2.B.3.1 EPINEPHRINE
CORTISONE	2.C.3 THYROID DISORDERS	ESTRADIOL	2.F.3.2 ESTROGENS
CRETINISM	2.B.5 ADRENAL DISORDERS	ESTRIOL	2.F.3.2 ESTROGENS
CUSHING'S SYNDROME	1.F.9.2.7 CYCLAMATES	ESTROGENIC SUBSTANCES, CONJUGATED	2.F.3.2 ESTROGENS
CYCLAMATES	1.C.2.2 INSULIN, SECRETION	ESTROGENS	2.F.3.2 ESTROGENS
CYTOCHALASIN B	1.C.2.2 INSULIN, SECRETION	ESTRONE	2.F.3.2 ESTROGENS
CYTOCHALASINS	2.B.2.1.3 OTHER GLUCOCORTICIDS	ETHINYL ESTRADIOL	2.F.3.2 ESTROGENS
DEHYDROEPIANDROSTERONE	2.F.3.1 ANDROGENS	ETHISTEREOL	2.F.3.2 ESTROGENS
	2.B.2.2 MINERALOCORTICIDS		2.F.3.3.2 PROGESTATIONAL HORMONES
DESOXYCORTICOSTERONE	2.B.2.1.3 OTHER GLUCOCORTICIDS	ETHYLESTRENOL	2.F.3.2 ESTROGENS
DEXAMETHASONE	2.E.6 PITUITARY DISORDERS	ETHYNDIOL DIACETATE	2.F.3.1 ANDROGENS
DIABETES INSIPIDUS	1.F.2 DIABETES MELLITUS	ETIOCHOLANOLONE	2.F.3.3.2 PROGESTATIONAL HORMONES
DIABETES MELLITUS	1.F.3.3 DIABETES, BLOOD		2.F.3.2 ESTROGENS
BLOOD	1.F.10.1 DIABETES, CHEMICALLY INDUCED	EUNUCHISM	2.F.3.2 ESTROGENS
CHEMICALLY INDUCED	1.F.6.6 OTHER COMPLICATIONS OF DIABETES	FLUDROCORTISONE	2.F.3.1 ANDROGENS
COMPLICATIONS	1.F.7.3 DIABETES, CONGENITAL		2.F.4 GONADAL DISORDERS
CONGENITAL	1.F.8.2 DIABETES, DIAGNOSIS	FLUOCINOLONE ACETONIDE	2.B.2.1.3 OTHER GLUCOCORTICIDS
DIAGNOSIS	1.F.9.5 DIABETES DRUG THERAPY	FLUORMETHOLONE	2.B.2.2 MINERALOCORTICIDS
DRUG THERAPY	1.F.3.2 DIABETES, ENZYMOLOGY	FLUOXMYSTERONE	2.B.2.1.3 OTHER GLUCOCORTICIDS
ENZYMOLOGY	1.F.7.2 DIABETES, ETIOLOGY	FLURANDRENOLONE	2.B.2.1.3 OTHER GLUCOCORTICIDS
ETIOLOGY	1.F.7.4 DIABETES, FAMILIAL AND GENETIC	FROELICH'S SYNDROME	2.E.6 PITUITARY DISORDERS
FAMILIAL & GENETIC	1.F.12 DIABETES, HISTORY	FSH	2.E.1.4 GONADOTROPINS, PITUITARY
HISTORY	1.F.5 DIABETES, IMMUNOLOGY	GASTRIN	2.G.2.1 GASTROINTESTINAL HORMONES
IMMUNOLOGY	1.F.3.1 DIABETES, METABOLISM	GASTROINTESTINAL HORMONES	
METABOLISM	1.F.9.9 DIABETES, MORTALITY		
MORTALITY	1.F.7.1 DIABETES, OCCURRENCE		
OCCURRENCE			

MEDLARS Terms Included in Hierarchical Index

GIGANTISM
GLIBENCLAMIDE
GLUCAGON
ADMINISTRATION & DOSAGE

ANALYSIS
BLOOD
DIAGNOSTIC USE
METABOLISM
PHARMACODYNAMICS
PHYSIOLOGY
SECRETION
THERAPEUTIC USE
TOXICITY
GLUCOCORTICIDS
GLUCOSE

THERAPEUTIC USE
GLUCOSE TOLERANCE TEST
GLYCOSURIA
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ENZYMOLGY
ETIOLOGY
METABOLISM
OCCURRENCE

GLYCOSURIA, RENAL
GOITER, EXOPHTHALMIC
GONADOTROPINS, CHORIONIC
GONADOTROPINS, EQUINE
GONADOTROPINS, PITUITARY
GONADS
GRAAFIAN FOLLICLE
GROWTH DISORDERS
HERMAPHRODITISM
HEXESTROL
HORMONES
HORMONES, ECTOPIC
HYDROCORTISONE
11-HYDROXYCORTICOSTEROIDS
17-HYDROXYCORTICOSTEROIDS
HYDROXYCORTICOSTEROIDS
HYDROXYMETHYLTESTOSTERONE
HYDROXYPROGESTERONE

HYPERALDOSTERONISM
HYPERGLYCEMIA
BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
URINE

HYPERINSULINISM
HYPERPITUITARISM
HYPERHYDROIDISM
HYPOGLYCEMIA
BLOOD
CHEMICALLY INDUCED
COMPLICATIONS
DIAGNOSIS
DRUG THERAPY
ETIOLOGY
METABOLISM
PHYSIOPATHOLOGY
THERAPY

HYPOGLYCEMIC AGENTS (NON MESH)
HYPOGONADISM
HYPOPHYSECTOMY
HYPOPITUITARISM
HYPOHYDROIDISM
INSULIN

ADMINISTRATION & DOSAGE
ADVERSE EFFECTS
ANALYSIS
ANTAGONISTS & INHIBITORS
BIOSYNTHESIS
BLOOD
CHEM SYNTHESIS
DIAGNOSTIC USE
HISTORY
ISOLATION & PURIFICATION
METABOLISM
PHARMACODYNAMICS

2.E.6 PITUITARY DISORDERS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.D GLUCAGON
1.D.3.1 GLUCAGON, ADMINISTRATION AND
DOSAGE
1.D.1.1 GLUCAGON, ANALYSIS
1.D.1.3 GLUCAGON, BLOOD
1.D.4.1 GLUCAGON, DIAGNOSTIC USE
1.D.1.2 GLUCAGON, METABOLISM
1.D.3.2 GLUCAGON, PHARMACODYNAMICS
1.D.2.1 GLUCAGON, PHYSIOLOGY
1.D.2.2 GLUCAGON, SECRETION
1.D.4.2 GLUCAGON, THERAPEUTIC USE
1.D.3.3 GLUCAGON, TOXICITY
2.B.2.1 GLUCOCORTICIDS

1.F.9.2.2 GLUCOSE, THERAPEUTIC USE
1.E.2 GLUCOSE TOLERANCE TEST
1.E.4 GLYCOSURIA
1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED
1.E.4.2 GLYCOSURIA, COMPLICATIONS
1.E.4.3 GLYCOSURIA, DIAGNOSIS
1.E.4.4 GLYCOSURIA, DRUG THERAPY
1.E.4.5 GLYCOSURIA, ENZYMOLOGY
1.E.4.6 GLYCOSURIA, ETIOLOGY
1.E.4.7 GLYCOSURIA, METABOLISM
1.E.4.8 GLYCOSURIA, OCCURRENCE
1.E.5 GLYCOSURIA, RENAL
2.C.3 THYROID DISORDERS
2.G.2.4 PLACENTAL HORMONES
2.G.2.4 PLACENTAL HORMONES
2.E.1.4 GONADOTROPINS, PITUITARY
2.F GONADS
2.F.1 OVARY

2.E.6 PITUITARY DISORDERS
2.F.4 GONADAL DISORDERS
2.F.3.2 ESTROGENS
2.G.2 HORMONES
2.G.2.1 HORMONES, ECTOPIC
2.B.2.1.2 HYDROCORTISONE
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.B.5 ADRENAL DISORDERS
1.E.3 HYPERGLYCEMIA
1.E.3.1 HYPERGLYCEMIA, BLOOD
1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED
1.E.3.3 HYPERGLYCEMIA, COMPLICATIONS
1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS
1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY
1.E.3.6 HYPERGLYCEMIA, ETIOLOGY
1.E.3.7 HYPERGLYCEMIA, METABOLISM
1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY
1.E.3.9 HYPERGLYCEMIA, URINE
1.C.4 HYPERINSULINISM

2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.E.6 HYPOGLYCEMIA
1.E.6.1 HYPOGLYCEMIA, BLOOD
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS
1.E.6.4 HYPOGLYCEMIA, DIAGNOSIS
1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY
1.E.6.6 HYPOGLYCEMIA, ETIOLOGY
1.E.6.7 HYPOGLYCEMIA, METABOLISM
1.E.6.8 HYPOGLYCEMIA, PHYSIOPATHOLOGY
1.E.6.9 HYPOGLYCEMIA, THERAPY
1.E.6.2 HYPOGLYCEMIA, CHEMICALLY INDUCED
2.F.4 GONADAL DISORDERS
2.E.5 HYPOPHYSECTOMY
2.E.6 PITUITARY DISORDERS
2.C.3 THYROID DISORDERS
1.C INSULIN
1.F.9.3.1 INSULIN, ADMINISTRATION AND DOSAGE
1.C.3.3 INSULIN, ADVERSE EFFECTS
1.C.1.2 INSULIN, ANALYSIS
1.C.3.2 INSULIN, ANTAGONISTS AND INHIBITORS
1.C.1.4 INSULIN, BIOSYNTHESIS
1.C.1.6 INSULIN, BLOOD
1.C.1.3 INSULIN, CHEMICAL SYNTHESIS
1.C.7.1 INSULIN, DIAGNOSTIC USE
1.C.8 INSULIN, HISTORY
1.C.1.1 INSULIN, ISOLATION AND PURIFICATION
1.C.1.5 INSULIN, METABOLISM
1.C.3.1 INSULIN, PHARMACODYNAMICS

PHYSIOLOGY
SECRETION
THERAPEUTIC USE
URINE
INSULIN ANTIBODIES
INSULIN COMA
INSULIN, GLOBIN ZINC
INSULIN, ISOPHANE
INSULIN, LENTE
INSULIN, PROTAMINE ZINC
INSULIN RESISTANCE
INVERTEBRATE HORMONES
ISLANDS OF LANGERHANS
ANALYSIS

ANATOMY & HISTOLOGY

BLOOD SUPPLY

CYTOLOGY

DRUG EFFECTS

EMBRYOLOGY

ENZYMOLGY

GROWTH & DEVELOPMENT

INNERVATION

METABOLISM

PATHOLOGY

PHYSIOLOGY

PHYSIOPATHOLOGY

SECRETION

ISLET CELL TUMOR

JUVENILE HORMONES
17-KETOSTEROIDS
KIMMELSTIEL-WILSON SYNDROME
KLINEFELTERS SYNDROME
LEYDIG CELL TUMOR
LEYDIG CELLS
LH

LH-FSH RELEASING HORMONE
LYNSTEROL
MEDROXYPROGESTERONE
MELATONIN
MESTRANOL
METAHEXAMIDE
METFORMIN
METHANDROSTENOLONE
METHYLPREDNISOLONE
METHYLTESTOSTERONE
METHYLTHIOURACIL
MINERALOCORTICIDS
MSH

MYXEDEMA
NANDROLONE
NOREPINEPHRINE
NORETHANDROLONE
NORETHINDRONE
NORETHYNDREL
NORMETHANDROLONE
OBESITY IN DIABETES
OVARIAN CYSTS
OVARIAN DISEASES
OVARIAN NEOPLASMS
OVARY

OXANDROLONE
OXYMETHOLONE
OXYTOCINS
OXYTOCIN
PANCREAS

ANALYSIS
BLOOD SUPPLY
CYTOLOGY
DRUG EFFECTS
EMBRYOLOGY
ENZYMOLGY
INNERVATION
METABOLISM

1.C.2.1 INSULIN, PHYSIOLOGY
1.C.2.2 INSULIN, SECRETION
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.1.7 INSULIN, URINE
1.C.5 INSULIN ANTIBODIES
1.C.4.1 INSULIN COMA
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.F.9.3.2 INSULIN, THERAPEUTIC USE
1.C.6 INSULIN RESISTANCE
2.G.2.3 HORMONES, ECTOPIC
1.A ISLANDS OF LANGERHANS
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED

1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.4 ISLANDS OF LANGERHANS,
PHARMACOLOGY RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.1 ISLANDS OF LANGERHANS, ANATOMY
RELATED
1.A.2 ISLANDS OF LANGERHANS, BIOCHEMISTRY
RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.3 ISLANDS OF LANGERHANS, PHYSIOLOGY
RELATED
1.A.5 ISLANDS OF LANGERHANS, PATHOLOGY
RELATED

2.G.2.6 JUVENILE HORMONES
2.B.2.1.3 OTHER GLUCOCORTICIDS
1.F.6.3 DIABETIC NEPHROPATHIES
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.2 TESTIS
2.E.1.4 GONADOTROPINS, PITUITARY
2.E.1.4 GONADOTROPINS, PITUITARY
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.F.3.2 ESTROGENS
1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
1.F.9.4.5 OTHER BIGUANIDES
2.F.3.1 ANDROGENS
2.B.2.1.3 OTHER GLUCOCORTICIDS
2.F.3.1 ANDROGENS
2.C.2 THYROID ANTAGONISTS
2.B.2.2 MINERALOCORTICIDS
2.E.3 PITUITARY HORMONES, INTERMEDIATE
2.C.3 THYROID DISORDERS
2.F.3.1 ANDROGENS
2.B.3.2 NOREPINEPHRINE
2.F.3.1 ANDROGENS
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.3.2 PROGESTATIONAL HORMONES
2.F.3.1 ANDROGENS
1.F.9.2.1 OBESITY IN DIABETES
2.F.1 OVARY
2.F.4 GONADAL DISORDERS
2.F.4 GONADAL DISORDERS
2.F.1 OVARY
2.F.3.1 ANDROGENS
2.F.3.1 ANDROGENS
2.E.2 PITUITARY HORMONES, POSTERIOR
2.E.2 PITUITARY HORMONES, POSTERIOR
1.B PANCREAS
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.4 PANCREAS, PHARMACOLOGY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED
1.B.1 PANCREAS, ANATOMY RELATED
1.B.2 PANCREAS, BIOCHEMISTRY RELATED

MEDLARS Terms Included in Hierarchical Index

PATHOLOGY	1.B.5 PANCREAS, PATHOLOGY RELATED
PHYSIOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
PHYSIOPATHOLOGY	1.B.3 PANCREAS, PHYSIOLOGY RELATED
SECRETION	1.B.3 PANCREAS, PHYSIOLOGY RELATED
TRANSPLANTATION	1.B.6.1 PANCREAS, TRANSPLANTATION
PANCREATIC DISEASES	1.B.6.2 PANCREATICTOMY
PANCREATIC EXTRACTS	1.B.5 PANCREAS, PATHOLOGY RELATED
PANCREATIC HORMONES	1.B.4 PANCREAS, PHARMACOLOGY RELATED
PANCREOZYMIN	1.B.2 PANCREAS, BIOCHEMISTRY RELATED
PARAMETHASONE	2.G.2.1 GASTROINTESTINAL HORMONES
PARATHYROID DISEASES	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PARATHYROID GLANDS	2.D PARATHYROID GLANDS
PARATHYROID HORMONE	2.D PARATHYROID GLANDS
PHENFORMIN	1.F.9.4.4 PHENFORMIN
PINEAL BODY	2.G.4 PINEAL BODY
PITUITARY-ADRENAL SYSTEM	2.G.5 PITUITARY-ADRENAL SYSTEM
PITUITARY GLAND	2.E PITUITARY GLAND
PITUITARY HORMONE RELEASING HORMONES	2.E.4 PITUITARY HORMONE RELEASING FACTORS
PITUITARY HORMONES, ANTERIOR	2.E.1 PITUITARY HORMONES, ANTERIOR
PITUITARY HORMONES, POSTERIOR	2.E.2 PITUITARY HORMONES, POSTERIOR
PLACENTA DISORDERS	1.F.6.8 PREGNANCY IN DIABETES
PLACENTAL HORMONES	2.G.2.4 PLACENTAL HORMONES
PREDIABETIC STATE	1.F.7.5 PREDIABETIC STATE
PREDNISOLONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREDNISONE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNANCY	1.F.6.8 PREGNANCY IN DIABETES
PREGNANCY IN DIABETES	1.F.6.8 PREGNANCY IN DIABETES
PREGNAMEDOL	1.F.3.3.2 PROGESTATIONAL HORMONES
PREGNANETRIOL	2.B.2.1.3 OTHER GLUCOCORTICOIDS
PREGNENOLONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTATIONAL HORMONES	2.F.3.3.2 PROGESTATIONAL HORMONES
PROGESTERONE	2.F.3.3.2 PROGESTATIONAL HORMONES
PROINSULIN	1.C.1.4 INSULIN, BIOSYNTHESIS
PROLACTIN	2.E.1.4 GONADOTROPINS, PITUITARY
PROPYLTHIOURACIL	2.C.2.7 THYROID ANTAGONISTS
PROSTAGLANDINS	2.G.2.2 PROSTAGLANDINS
PUBERTY, PRECOCIOUS	2.F.4 GONADAL DISORDERS
RECEPTORS, HORMONE	2.G.2 HORMONES
RELAXIN	2.G.2.5 RELAXIN
SACCHARIN	1.F.9.2.8 SACCHARIN
SECRETIN	2.G.2.1 GASTROINTESTINAL HORMONES
SECRETORY RATE	2.G.6 SECRETORY RATE
SERTOLI CELL TUMOR	2.F.4 GONADAL DISORDERS
SERTOLI CELLS	2.F.2 TESTIS
SEX DIFFERENTIATION DISORDERS	2.F.4 GONADAL DISORDERS
SEX HORMONES	2.F.3 SEX HORMONES
SHEEHAN'S SYNDROME	2.E.6 PITUITARY DISORDERS
SKIN ULCER	1.F.6.2 DIABETIC ANGIOPATHIES
SOMATOTROPIN	2.E.1.2 SOMATOTROPIN
SOMATOTROPIN RELEASING HORMONE	2.E.1.2 SOMATOTROPIN
STANOLONE	2.F.3.1 ANDROGENS
STANOZOLOL	2.F.3.1 ANDROGENS
TESTICULAR DISEASES	2.F.4 GONADAL DISORDERS
TESTICULAR FEMINIZATION	2.F.4 GONADAL DISORDERS
TESTICULAR NEOPLASMS	2.F.4 GONADAL DISORDERS
TESTIS	2.F.2 TESTIS
TESTOSTERONE	2.F.3.1 ANDROGENS
THIOCYANATES	2.C.2 THYROID ANTAGONISTS
THIOURACIL	2.C.2 THYROID ANTAGONISTS
THIOUREA	2.C.2 THYROID ANTAGONISTS
THYROID ANTAGONISTS	2.C.2 THYROID ANTAGONISTS
THYROID CRISIS	2.C.3 THYROID DISORDERS
THYROID GLAND	2.C.3 THYROID GLAND
THYROID HORMONES	2.C.1 THYROID HORMONES
THYROIDITIS	2.C.3 THYROID DISORDERS
THYROIDITIS, LYMPHOMATOUS	2.C.3 THYROID DISORDERS
THYRONINE	2.C.1 THYROID HORMONES
THYROTROPIN	2.E.1.3 THYROTROPIN
THYROTROPIN RELEASING HORMONE	2.E.4 PITUITARY HORMONE RELEASING FACTORS
THYROXINE	2.C.1 THYROID HORMONES
TOLAZAMIDE	1.F.9.4.3 OTHER SULFONYL-UREA DERIVATIVES
TRIAMCINOLONE	1.F.9.4.2 TOLBUTAMIDE
TRIHODOTHYRONINE	2.B.2.1.3 OTHER GLUCOCORTICOIDS
TURNERS SYNDROME	2.C.1 THYROID HORMONES
VASOPRESSIN	2.F.4 GONADAL DISORDERS
VIRILISM	2.E.2 PITUITARY HORMONES, POSTERIOR
WATERHOUSE-FRIDERICHSEN SYNDROME	2.F.4 GONADAL DISORDERS
	2.B.5 ADRENAL DISORDERS

SECTION 1. DIABETES MELLITUS AND RELATED TOPICS

1.A ISLANDS OF LANGERHANS

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- [INSULIN CONCENTRATION IN PLASMA FROM THE FEMORAL, HEPATIC AND PANCREATICO-DUODENAL VEINS OF DOGS UNDER STANDARD CONDITIONS AND IN CORISONE GLUCOSE TOLERANCE TESTS]** Dagaeva LN, Podotykina OI, Vladimirov VG, Sergeenko VI *Bull Eksp Biol Med* 81: 681-4, Jun 76 (Rus) DL/76DEC38

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Diabetes Literature—Hierarchical Index

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- PROCEEDINGS: INCREASED PLASMA PRO-INSULIN FOLLOWING OPERATION: A MECHANISM FOR INSULIN RESISTANCE.** Giddings AE, Mangnall D, Lafferty HH, Clark RG *Br J Surg* 63: 666, Aug 76 (Eng) DL/76DEC44
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Diabetes Literature—Hierarchical Index

1.C INSULIN

- CARBOHYDRATE AND LIPID METABOLIC STUDIES BEFORE AND AFTER ONE YEAR OF TREATMENT WITH ETHYNOIODIOL DIACETATE IN NORMAL WOMEN.** Spellacy WN, Buih WC, Birk SA *Fertil Steril* 27: 900-4, Aug 76 (Eng) DL/76DEC124
- CARBOHYDRATE METABOLISM AND CAPILARY BASEMENT-MEMBRANE THICKNESS IN CHILDREN. I. CROSS-SECTIONAL STUDIES.** Sheikholislam BM, Irias JJ, Lin HJ, Lowrey GH, Stephenson SR, Peterson GE, Devereux DF, Volk TL *Diabetes* 25: 650-60, Aug 76 (Eng) DL/76DEC132
- CARBOHYDRATE METABOLISM AND CAPILARY BASEMENT-MEMBRANE THICKNESS IN CHILDREN. II. LONGITUDINAL STUDIES.** Sheikholislam BM, Irias JJ, Lowrey GH, Lin HJ *Diabetes* 25: 661-6, Aug 76 (Eng) DL/76DEC133
- COMPARISON OF PERIPHERAL AND PORTAL ROUTES OF INSULIN INFUSION BY A COMPUTER-CONTROLLED INSULIN INFUSION SYSTEM (ARTIFICIAL ENDOCRINE PANCREAS).** Botz CK, Leibel BS, Zingg W, Gander RE, Albisser AM *Diabetes* 25: 691-700, Aug 76 (Eng) DL/76DEC136
- PLASMA GLUCOSE AND INSULIN RESPONSES TO ORALLY ADMINISTERED SIMPLE AND COMPLEX CARBOHYDRATES.** Crapo PA, Reaven G, Olefsky J *Diabetes* 25: 741-7, Sep 76 (Eng) DL/76DEC142
- EFFECT OF ETHANOL ON THE GLUCOSE-MEDIATED INSULIN RELEASE IN TRIPLY CATHETERIZED ANESTHETIZED PIGS.** Kuhl C, Andersen O, Jensen SL, Nielsen OV *Diabetes* 25: 752-7, Sep 76 (Eng) DL/76DEC144
- GLUCAGON RELEASE PRECEDES INSULIN RELEASE IN RESPONSE TO COMMON SECRETAGOGUES.** Pek S, Tai TY, Crowther R, Fajans SS *Diabetes* 25: 764-70, Sep 76 (Eng) DL/76DEC146
- EFFECT OF DIABETES MELLITUS AND INSULIN ON THE TURNOVER AND METABOLIC RESPONSE TO KETONES IN MAN.** Sherwin RS, Hendler RG, Felig P *Diabetes* 25: 776-84, Sep 76 (Eng) DL/76DEC148
- THE HALF-LIFE OF BOVINE AND CHICKEN INSULIN IN CHICKEN PLASMA.** Langslow DR *Gen Comp Endocrinol* 29: 423-5, Jul 76 (Eng) DL/76DEC170
- PLASMA INSULIN CONCENTRATION DURING PHYSIOLOGICAL VARIATIONS IN IMMUNOREACTIVE PLASMA SECRETIN.** de Muckadell OB, Fahrenkrug J, Kuhl C *Horm Metab Res* 8: 253-6, Jul 76 (Eng) DL/76DEC176
- THE INFLUENCE OF THYROID FUNCTION ON THE DIABETOGENIC ACTION OF TRIAMCINOLONE IN MAN. GLUCOSE, INSULIN AND GROWTH HORMONE PATTERNS AFTER ORAL GLUCOSE LOAD.** Zamrazil V, Nedvickova J, Felt V, Nemec J, Havelka J *Horm Metab Res* 8: 282-6, Jul 76 (Eng) DL/76DEC182
- METABOLIC EFFECTS OF PENTOBARBITAL NARCOSIS IN THE RAT.** Kral JG, Fellenius E *Horm Metab Res* 8: 320-1, Jul 76 (Eng) DL/76DEC184
- VARIATIONS IN HORMONE CONCENTRATIONS IN BOVINE SERA USED FOR TISSUE CULTURE.** Bodgen AE, Esber HJ *In Vitro [Moligr]* 0: 22-3, 1974 (Eng) DL/76DEC189
- [METABOLIC EFFECTS OF A MIXED CARBOHYDRATE SOLUTION WITH SIMULTANEOUS INFUSION OF AMINO ACIDS]** Matzies F, Berg G *Int J Vitam Nutr Res* 153-8, 1976 (Ger) DL/76DEC192
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- [SUGAR SUBSTITUTES IN THE DIABETIC DIET]** Menhert H *Int J Vitam Nutr Res* 295-324, 1975 (Ger) [32] DL/76DEC197
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- LIPID, GLUCOSE, AND INSULIN INTERRELATIONSHIPS IN NORMAL, PREDIABETIC, AND CHEMICAL DIABETIC SUBJECTS.** Kynar JL, Levy RI, Soeldner JS, Gleason RE, Fredrickson DS *J Lab Clin Med* 88: 345-58, Sep 76 (Eng) DL/76DEC248
- THE EFFECT OF AGE ON PLASMA PROINSULIN-LIKE MATERIAL AFTER ORAL GLUCOSE.** Duckworth WC, Kitabchi AE *J Lab Clin Med* 88: 359-67, Sep 76 (Eng) DL/76DEC249
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Diabetes Literature—Hierarchical Index

I.C INSULIN

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Diabetes Literature—Hierarchical Index

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1.D.1 GLUCAGON, BIOCHEMISTRY RELATED

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HORMONAL AND NUTRITIONAL SUBSTRATE CONTROL OF CARDIAC LYSSOMAL ENZYME ACTIVITIES Wildenthal K *Circ Res* 39: 441-6, Sep 76 (Eng) DL/76DEC69

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1.D.3 GLUCAGON, PHARMACOLOGY RELATED

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1.D.3.2 GLUCAGON, PHARMACODYNAMICS

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- 1.D.3.3 GLUCAGON, TOXICITY**
- 1.D.4 GLUCAGON, THERAPY RELATED**
- 1.D.4.1 GLUCAGON, DIAGNOSTIC USE**
- [THE USE GLUCAGON FOR ENDOSCOPIC AND RADIOLOGICAL EXAMINATION OF THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)]** Paul F, Freyschmidt J *Fortschr Geb Roentgenstr Nuklearmed* 125: 31-7, Jul 76 (Ger) DL/76DEC174
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- 1.D.4.2 GLUCAGON, THERAPEUTIC USE**
- A CONTROLLED TRIAL OF GLUCAGON IN EXPERIMENTAL PANCREATITIS.** Waterworth MW, Barbezat GO, Hickman R, Terblanche J *Br J Surg* 63: 617-20, Aug 76 (Eng) DL/76DEC43
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- 1.E.1 BLOOD SUGAR**
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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- I.E.1.1 BLOOD SUGAR, ANALYSIS
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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- LIPID, GLUCOSE, AND INSULIN INTERRELATIONSHIPS IN NORMAL, PREDIABETIC, AND CHEMICAL DIABETIC SUBJECTS.** Kyner JL, Levy RI, Soeldner JS, Gleason RE, Fredrickson DS *J Lab Clin Med* 88: 345-58, Sep 76 (Eng) DL/76DEC248
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- DECREASED PLASMA INSULIN BUT NORMAL GLUCAGON IN RATS FED LOW PROTEIN DIETS.** Kabadi UM, Eisenstein AB, Strack I *J Nutr* 106: 1247-53, Sep 76 (Eng) DL/76DEC254
- HYPOLYCEMIC RESPONSE OF BLOOD TO LIVE ESCHERICHIA COLI ORGANISMS AND ENDOTOXIN.** Hinshaw LB, Beller BK, Archer LT, Benjamin B *J Surg Res* 21: 141-50, Sep 76 (Eng) DL/76DEC274
- EFFECTS OF INSULIN INFUSION ON GLUCOSE KINETICS IN NORMAL AND BURNED GUINEA PIGS.** Wolfe RR, Spitzer JJ, Miller RI, Elahi D *Life Sci* 19: 147-55, 15 Jul 76 (Eng) DL/76DEC282
- SUBCUTANEOUS, ISOGENEIC TRANSPLANTATION OF DUCT-LIGATED PANCREAS IN STREPTOZOTOCIN DIABETIC MICE: RELATIONSHIPS BETWEEN RECOVERY AND HORMONE CONTENTS IN TRANSPLANTS OR HOST PANCREAS.** Kramp RC, Cucho R, Muller WA, Renold AE *Metabolism* 25: 1007-16, Sep 76 (Eng) DL/76DEC290
- IMPROVEMENT OF GROWTH HORMONE RESPONSE TO STIMULATION IN PRIMARY ALDOSTERONISM WITH CORRECTION OF POTASSIUM DEFICIENCY.** Podolsky S, Melby JC *Metabolism* 25: 1027-32, Sep 76 (Eng) DL/76DEC291
- MECHANISM OF ACTION OF PHENETHYL-BIGUANIDE (PHENFORMIN) IN MAN. III. INTERRELATIONSHIP BETWEEN ETHANOL AND PHENETHYLBIGUANIDE (PBG) IN NORMAL AND DIABETIC SUBJECTS.** Wajsbienberg BL, Halpern A, Leme CE, Lerario AC, Silveria AA, Fioratti PA, Cesar FP *Metabolism* 25: 957-71, Sep 76 (Eng) DL/76DEC292
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- EPIDEMIOLOGIC STUDIES OF DIABETES IN THE PIMA INDIANS.** Bennett PH, Rushforth NB, Miller M, LeCompte PM *Recent Prog Horm Res* 32: 333-76, 1976 (Eng) DL/76DEC356
- SOMATOSTATIN INHIBITS INSULIN-STIMULATED GASTRIN RELEASE AND GASTRIC SECRETION OF ACID, PEPsin, AND INTRINSIC FACTOR (IF) IN DUODENAL ULCER PATIENTS.** Schrumph E, Vatn MH, Hanssen KF, Semb S, Myren J *Scand J Gastroenterol* 11: 517-20, 1976 (Eng) DL/76DEC365
- EFFECTS ON EXOCRINE AND ENDOCRINE RAT PANCREAS OF LONG-TERM ADMINISTRATION OF CCK-PZ (CHOLECYSTOKININ-PANCREOZYMIN) OR SYNTHETIC OCTAPEPTIDE - CCK-PZ.** Arnesjo H, Lundquist I *Scand J Gastroenterol* 11: 529-35, 1976 (Eng) DL/76DEC366
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Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

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- 1.E.1.4 BLOOD SUGAR, PHARMACODYNAMICS**
- 1.E.2 GLUCOSE TOLERANCE TEST**
- CARBOHYDRATE METABOLISM IN LICHEN PLANUS.** Lowe NJ, Cudworth AG, Clough SA, Bullen MF *Br J Dermatol* 95: 9-12, Jul 76 (Eng) DL/76DEC14
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- LIPID, GLUCOSE, AND INSULIN INTERRELATIONSHIPS IN NORMAL, PREDIABETIC, AND CHEMICAL DIABETIC SUBJECTS.** Kynner JL, Levy RI, Socklener JS, Gleason RE, Fredrickson DS *J Lab Clin Med* 88: 345-58, Sep 76 (Eng) DL/76DEC248
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- EFFECT OF GLUCOSE ADMINISTRATION ON THE BLOOD SUGAR AND PANCREATIC**

Diabetes Literature—Hierarchical Index

1.E BLOOD SUGAR, URINE SUGAR AND RELATED TOPICS

- ISLETS OF THE FROG, RANA TIGRINA.** Kumar S, Khanna SS *Acta Anat (Basel)* 94: 30-9, 1976 (Eng) DL/76DEC430
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- 1.E.3 HYPERGLYCEMIA**
- DIET IN THE MANAGEMENT OF DIABETES. WHY DIET THE DIABETIC** Whyte HM *Med J Aust* 1: 836-8, 29 May 76 (Eng) DL/76DEC295
- 1.E.3.1 HYPERGLYCEMIA, BLOOD**
- ULTRADIAN GROWTH HORMONE RHYTHM IN THE RAT: EFFECTS OF FEEDING, HYPERGLYCEMIA, AND INSULIN-INDUCED HYPOGLYCEMIA.** Tannenbaum GS, Martin JB, Colle E *Endocrinology* 99: 720-7, Sep 76 (Eng) DL/76DEC101
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- 1.E.3.2 HYPERGLYCEMIA, CHEMICALLY INDUCED**
- [THE USE GLUCAGON FOR ENDOSCOPIC AND RADIOLOGICAL EXAMINATION OF THE GASTROINTESTINAL TRACT (AUTHORS TRANSL)]** Paul F, Freyschmidt J *Fortschr Geb Roentgenstr Nuklearmed* 125: 31-7, Jul 76 (Ger) DL/76DEC174
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- REDUCTION OF HOSPITAL MORTALITY RATE OF ACUTE MYOCARDIAL INFARCTION WITH GLUCOSE-INSULIN-POTASSIUM INFUSION.** Rogers WJ, Stanley AW Jr, Breinig JB, Prather JW, McDaniel HG, Moraski RE, Mantle JA, Russell RO Jr, Rackley CE *Am Heart J* 92: 441-54, Oct 76 (Eng) DL/76DEC439
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- 1.E.3.4 HYPERGLYCEMIA, DIAGNOSIS**
- 1.E.3.5 HYPERGLYCEMIA, DRUG THERAPY**
- CONTINUOUS LOW-DOSE INFUSION OF INSULIN IN THE TREATMENT OF DIABETIC KETOACIDOSIS IN CHILDREN.** Martin MM, Martin AA *J Pediatr* 89: 560-4, Oct 76 (Eng) DL/76DEC256
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- 1.E.3.6 HYPERGLYCEMIA, ETIOLOGY**
- [ROLE OF ALIMENTARY HYPERGLYCEMIA IN THE PATHOGENESIS OF SEVERAL DISORDERS OF LIPID METABOLISM]** Kantardzhian IG, Negovskaia AV *Biull Eksp Biol Med* 81: 281-3, Mar 76 (Rus) DL/76DEC37
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- EDITORIAL: THE PRIMACY OF INSULIN.** Vaisrub S *JAMA* 236: 1274-5, 13 Sep 76 (Eng) DL/76DEC266
- [FUNCTIONAL-METABOLIC DISORDERS IN TYPHOID INFECTION]** Dragomirescu M, Dragomirescu L, Stancescu-Lupu D, Novac E, Martincu V, Rocsin M *Rev Ig [Bacteriol]* 21: 95-8, Apr-Jun 76 (Rum) DL/76DEC359
- 1.E.3.7 HYPERGLYCEMIA, METABOLISM**
- SEVERE DIABETIC METABOLIC DECOMPENSATION.** Munro JF *Br J Clin Pract* 30: 141-4, Jun-Aug 76 (Eng) DL/76DEC8
- THE HORMONAL AND METABOLIC BASIS OF EXPERIMENTAL OBESITY.** Assimacopoulos-Jeanmet F, Jeanrenaud B *Clin Endocrinol Metabol* 5: 337-65, Jul 76 (Eng) [125] DL/76DEC75
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- 1.E.3.8 HYPERGLYCEMIA, PHYSIOPATHOLOGY**
- 1.E.3.9 HYPERGLYCEMIA, URINE**
- 1.E.4 GLYCOSURIA**
- KINETIC URINE CREATININE DETERMINATION WITH THE GEMSAEC ANALYZER.** Ward P, Ewen M, Pomeroy JA, Leung FY *Clin Biochem* 9: 225-7, Aug 76 (Eng) DL/76DEC71
- DIET IN THE MANAGEMENT OF DIABETES. WHY DIET THE DIABETIC** Whyte HM *Med J Aust* 1: 836-8, 29 May 76 (Eng) DL/76DEC295
- FELINE DIABETES MELLITUS.** Schaer M *Vet Clin North Am* 6: 453-61, Aug 76 (Eng) [17] DL/76DEC397
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- 1.E.4.1 GLYCOSURIA, CHEMICALLY INDUCED**
- 1.E.4.2 GLYCOSURIA, COMPLICATIONS**
- 1.E.4.3 GLYCOSURIA, DIAGNOSIS**
- 1.E.4.4 GLYCOSURIA, DRUG THERAPY**
- 1.E.4.5 GLYCOSURIA, ENZYMOLOGY**
- 1.E.4.6 GLYCOSURIA, ETIOLOGY**
- [PARENTERAL NUTRITION IN CHILDHOOD (AUTHORS TRANSL)]** Romahn A *Prakt Anaesth* 11: 121-8, Jun 76 (Ger) DL/76DEC343
- 1.E.4.7 GLYCOSURIA, METABOLISM**
- URINARY CYCLIC 3,5-ADENOSINE MONOPHOSPHATE (cAMP) IN DIABETIC SUBJECTS WITH AND WITHOUT SYMPTOMATIC HYPOGLYCEMIA AND IN NORMAL SUBJECTS WITH INSULIN-INDUCED HYPOGLYCEMIA.** Lilienfeld-Toal H, Wilms B *Horm Metab Res* 8: 279-81, Jul 76 (Eng) DL/76DEC181
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- 1.E.4.8 GLYCOSURIA, OCCURRENCE**
- 1.E.5 GLYCOSURIA, RENAL**
- 1.E.6 HYPOGLYCEMIA**
- LETTER: BLOOD-SAMPLING AND DIABETIC CONTROL.** Lovesey AC *Lancet* 02: 691, 25 Sep 76 (Eng) DL/76DEC278
- FELINE DIABETES MELLITUS.** Schaer M *Vet Clin North Am* 6: 453-61, Aug 76 (Eng) [17] DL/76DEC397
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URINARY CYCLIC 3,5-ADENOSINE MONOPHOSPHATE (cAMP) IN DIABETIC SUBJECTS WITH AND WITHOUT SYMPTOMATIC HYPOGLYCEMIA AND IN NORMAL SUBJECTS WITH INSULIN-INDUCED HYPOGLYCEMIA. Lilienfeld-Toal H, Wilms B *Horm Metab Res* 8: 279-81, Jul 76 (Eng) DL/76DEC181

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1.E.6.3 HYPOGLYCEMIA, COMPLICATIONS

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POSTPRANDIAL HYPOGLYCEMIA. Permutt MA *Diabetes* 25: 719-33, Aug 76 (Eng) [96] DL/76DEC141

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1.E.6.5 HYPOGLYCEMIA, DRUG THERAPY

1.E.6.6 HYPOGLYCEMIA, ETIOLOGY

POSTOPERATIVE HYPOGLYCAEMIA IN SMALL CHILDREN. Ware S, Osborne JP *Br Med J* 2: 499-501, 28 Aug 76 (Eng) DL/76DEC52

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ROLE OF THE SYMPATHETIC NERVOUS SYSTEM AND CENTRAL ALPHA- AND BETA-ADRENERGIC RECEPTORS IN REGU-

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1.F DIABETES

1.F.1 ALLOXAN DIABETES (SEE SEC. 1.F.10.2)

1.F.2 DIABETES MELLITUS

EDITORIAL: DIABETES MELLITUS IN THE AGED. Cantelon JF *Can Med Assoc J* 115: 487, 18 Sep 76 (Eng) DL/76DEC58

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IS CIGARETTE SMOKING MORE FREQUENT AMONG INSULIN-TREATED DIABETICS Czyzyk A, Krolewski AS *Diabetes* 25: 717-8, Aug 76 (Eng) DL/76DEC140

EDITORIAL: DIABETIC DIETS--A REASSESSMENT. Anonymous *Med J Aust* 1: 811-2, 29 May 76 (Eng) DL/76DEC294

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DIET IN THE MANAGEMENT OF DIABETES. DIABETIC PORTION SIZES. Hosking M *Med J Aust* 1: 843-4, 29 May 76 (Eng) DL/76DEC299

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1.F.3 DIABETES, BIOCHEMISTRY RELATED

1.F.3.1 DIABETES, METABOLISM

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- DIABETES MELLITUS.** Wood CS *Nurse Pract* 2: 30-1, Sep-Oct 76 (Eng) DL/76DEC322
- CHRONIC PERITONEAL DIALYSIS IN DIABETIC PATIENTS WITH END-STAGE RENAL FAILURE.** Finkelstein FO, Klier AS, Bastl C, Yap P, Goffinet J *Proc Clin Dial Transplant Forum* 5: 142-5, Nov 75 (Eng) DL/76DEC346
- [METABOLISM STUDIES WITH COFFEE AND CAFFEINE IN HEALTHY SUBJECTS, DIABETICS AND PATIENTS WITH LIVER DISEASE]** Studlar M, Pichler O *Z Ernährungswiss* 15: 80-91, Mar 76 (Ger) DL/76DEC403
- 1.F.3.2 DIABETES, ENZYMOLOGY**
- THE ASSOCIATION BETWEEN SERUM TRIGLYCERIDES AND GAMMA GLUTAMYL TRANSPEPTIDASE ACTIVITY IN DIABETES MELLITUS.** Martin JV, Hague RV, Martin PJ, Cullen DR, Goldberg DM *Clin Biochem* 9: 208-11, Aug 76 (Eng) DL/76DEC70
- 1.F.3.3 DIABETES, BLOOD**
- THE DISSOCIATION OF INSULIN FROM HUMAN INSULIN ANTIBODIES.** Yue DK, Baxter RC, Turtle JR *Biochim Biophys Acta* 444: 231-9, 24 Aug 76 (Eng) DL/76DEC31
- LETTER: DIABETIC DAY-CARE UNIT.** Amies DR *Can Med Assoc J* 115: 494, 18 Sep 76 (Eng) DL/76DEC59
- [HYPERLIPOPROTEINAEMIA AND DIABETES MELLITUS (AUTHORS TRANSL.)]** Krejsova Z, Bilkova H *Cas Lek Cesk* 115: 721-4, 18 Jun 76 (Cze) DL/76DEC64
- BLOOD GLYCOPROTEIN LEVELS IN DIABETES MELLITUS.** Jonsson A, Wales JK *Diabetologia* 12: 245-50, Jul 76 (Eng) DL/76DEC159
- ATTEMPTS AT PERFECT NORMALIZATION OF GLUCOSE TOLERANCE TEST OF SEVERE DIABETICS BY ARTIFICIAL BETA CELL.** Kerner W, Thum C, Tamas G, Beischer W, Clemens AH, Pfeiffer EF *Horm Metab Res* 8: 256-61, Jul 76 (Eng) DL/76DEC177
- URINARY CYCLIC 3,5-ADENOSINE MONOPHOSPHATE (CAMP) IN DIABETIC SUBJECTS WITH AND WITHOUT SYMPTOMATIC HYPOGLYCEMIA AND IN NORMAL SUBJECTS WITH INSULIN-INDUCED HYPOGLYCEMIA.** Lilienfeld-Toal H, Willms B *Horm Metab Res* 8: 279-81, Jul 76 (Eng) DL/76DEC181
- THE INFLUENCE OF THYROID FUNCTION ON THE DIABETOGENIC ACTION OF TRIAMCINOLONE IN MAN, GLUCOSE, INSULIN AND GROWTH HORMONE PATTERNS AFTER ORAL GLUCOSE LOAD.** Zamrazil V, Nedvikova J, Felt V, Nemec J, Havelka J *Horm Metab Res* 8: 282-6, Jul 76 (Eng) DL/76DEC182
- POSSIBLE SIDE EFFECTS OF GLUCOSE, FRUCTOSE, SORBITOL AND XYLITOL IN MAN.** Forster H *Int J Vitam Nutr Res* 116-30, 1976 (Eng) DL/76DEC191
- COMPARISON OF THE SUPPRESSIVE EFFECTS OF ELEVATED PLASMA GLUCOSE AND FREE FATTY ACID LEVELS ON GLUCAGON SECRETION IN NORMAL AND INSULIN-DEPENDENT DIABETIC SUBJECTS. EVIDENCE FOR SELECTIVE ALPHA-CELL INSENSITIVITY TO GLUCOSE IN DIABETES MELLITUS.** Gerich JE, Langlois M, Noacco C, Lorenzi M, Karam JH, Korsham PH *J Clin Invest* 58: 320-5, Aug 76 (Eng) DL/76DEC219
- LIPID, GLUCOSE, AND INSULIN INTERRELATIONSHIPS IN NORMAL, PREDIABETIC, AND CHEMICAL DIABETIC SUBJECTS.** Kyner JL, Levy RI, Soeldner JS, Gleason RE, Fredrickson DS *J Lab Clin Med* 88: 345-58, Sep 76 (Eng) DL/76DEC248
- PLASMA UNESTERIFIED FATTY ACID IN NORMAL, OBESE AND DIABETIC CHINESE.** Kao JT, Ou CT *J Formosan Med Assoc* 75: 198-204, Mar 76 (Eng) DL/76DEC251
- CARBOHYDRATE HOMEOSTASIS IN CHRONIC LYMPHOCYTIC THYROIDITIS: INCREASED INCIDENCE OF DIABETES MELLITUS.** Winter RJ, Green OC *J Pediatr* 89: 401-5, Sep 76 (Eng) DL/76DEC255
- LETTER: BLOOD-SAMPLING AND DIABETIC CONTROL.** Lovesey AC *Lancet* 02: 691, 25 Sep 76 (Eng) DL/76DEC278
- DIET IN THE MANAGEMENT OF DIABETES. WHY RESTRICT CARBOHYDRATE.** Taft P *Med J Aust* 1: 838-40, 29 May 76 (Eng) DL/76DEC296
- DIET IN THE MANAGEMENT OF DIABETES. WHY RESTRICT DIETARY FAT AND PROTEIN.** Wise P *Med J Aust* 1: 840-1, 29 May 76 (Eng) DL/76DEC297
- INFLUENCE OF AGE AND SEX ON PLASMA ZINC LEVELS IN NORMAL AND DIABETIC INDIVIDUALS.** Chooi MK, Todd JK, Boyd ND *Nutr Metab* 20: 135-42, 1976 (Eng) DL/76DEC320
- SERUM INSULIN, PANCREATIC GLUCAGON AND GROWTH HORMONE LEVELS IN RESPONSE TO INTRAVENOUS INFUSION OF L-ARGININE IN PATIENTS WITH RECENTLY DETECTED JUVENILE DIABETES.** Laweck J, Symonides-Laweck A, Rogala H *Pol Med Sci Hist Bull* 15: 177-82, Apr-Jun 76 (Eng) DL/76DEC337
- CHLORPROPAMIDE AND FIBRINOLYTIC ACTIVITY IN MATURITY ONSET DIABETES MELLITUS.** Alexander WD, Wensley RT, Price G, Hartog M *Postgrad Med J* 52: 251-3, May 76 (Eng) DL/76DEC341
- [DIABETES MELLITUS, ARTERIAL HYPERTENSION AND SERUM LEVELS OF RENIN]** Coliabarranco Gonzalez M, Orozco Romo MW, Vadillo JC, Valverde N *Prensa Med Mex* 41: 84-9, Mar-Apr 76 (Spa) DL/76DEC345
- EPIDEMIOLOGIC STUDIES OF DIABETES IN THE PIMA INDIANS.** Bennett PH, Rushforth NB, Miller M, LeCompte PM *Recent Prog Horm Res* 32: 333-76, 1976 (Eng) DL/76DEC356
- [NECROBIOSIS LIPOIDICA DIABETICORUM AND SERUM LIPIDS]** Sodemann K, Bruns W, Linss G, Rjasanowski I *Z Gesamte Inn Med* 31: 270-3, 1 May 76 (Ger) DL/76DEC411
- BLOOD KETONE BODY DISAPPEARANCE RATE IN DIABETICS AND NORMALS AFTER RAPID INFUSION OF DL-3-HYDROXYBUTYRATE. STUDIES BEFORE AND AFTER DIABETIC TREATMENT.** Wildenhoff KE *Acta Med Scand* 200: 79-86, 1976 (Eng) DL/76DEC437
- QUANTIFICATION OF L-GLUTAMINE USING ESCHERICHIA COLI GLUTAMATE SYNTHASE: A SENSITIVE FLUOROMETRIC ASSAY.** Miller RE *Anal Biochem* 75: 91-9, Sep 76 (Eng) DL/76DEC462
- [INSULIN]** Navalesi R *Ann Ist Super Sanita* 11: 136-47, 1975 (Ita) DL/76DEC465
- [CLUCAGON]** Fallucca F, Mirabella C, Tinelli F, Di Mario U *Ann Ist Super Sanita* 11: 148-62, 1975 (Ita) DL/76DEC466
- [SIGNIFICANCE OF RADIOIMMUNOLOGICAL DETERMINATION AS A TOOL FOR CLINICAL RESEARCH]** Donato L *Ann Ist Super Sanita* 11: 5-9, 1975 (Ita) DL/76DEC468
- COMPARATIVE STUDY OF THE HYPOGLYCAEMIC AND ANTILIPOLYTIC EFFECTS OF FOUR ANTIDIABETIC AGENTS ADMINISTERED IV.** Guirgis FK, Ghanem MH, Abdel-Hay MM *Arzneim Forsch* 26: 435-7, 1976 (Eng) DL/76DEC497
- [CONCENTRATION OF 14C-1-BUTYLBIGUANIDE IN PLASMA OF DIABETIC PATIENTS AND ITS ELIMINATION AFTER ADMINISTRATION OF A NEW GALENIC FORMULATION (AUTHORS TRANSL.)]** Gutsche H, Blumenbach L, Losert W, Wicmann H *Arzneim Forsch* 26: 1227-9, 1976 (Ger) DL/76DEC499
- 1.F.3.4 DIABETES, URINE**
- URINARY CYCLIC 3,5-ADENOSINE MONOPHOSPHATE (CAMP) IN DIABETIC SUBJECTS WITH AND WITHOUT SYMPTOMATIC HYPOGLYCEMIA AND IN NORMAL SUBJECTS WITH INSULIN-INDUCED HYPOGLYCEMIA.** Lilienfeld-Toal H, Willms B *Horm Metab Res* 8: 279-81, Jul 76 (Eng) DL/76DEC181
- BLOOD KETONE BODY DISAPPEARANCE RATE IN DIABETICS AND NORMALS AFTER RAPID INFUSION OF DL-3-HYDROXYBUTYRATE. STUDIES BEFORE AND AFTER DIABETIC TREATMENT.** Wildenhoff KE *Acta Med Scand* 200: 79-86, 1976 (Eng) DL/76DEC437
- 1.F.4 DIABETES, PHYSIOPATHOLOGY**
- ATTEMPTS AT PERFECT NORMALIZATION OF GLUCOSE TOLERANCE TEST OF SEVERE DIABETICS BY ARTIFICIAL BETA CELL.** Kerner W, Thum C, Tamas G, Beischer W, Clemens AH, Pfeiffer EF *Horm Metab Res* 8: 256-61, Jul 76 (Eng) DL/76DEC177
- COMPARISON OF THE SUPPRESSIVE EFFECTS OF ELEVATED PLASMA GLUCOSE AND FREE FATTY ACID LEVELS ON GLUCAGON SECRETION IN NORMAL AND INSULIN-DEPENDENT DIABETIC SUBJECTS. EVIDENCE FOR SELECTIVE ALPHA-CELL INSENSITIVITY TO GLUCOSE IN DIABETES MELLITUS.** Gerich JE, Langlois M, Noacco C, Lorenzi M, Karam JH, Korsham PH *J Clin Invest* 58: 320-5, Aug 76 (Eng) DL/76DEC219
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- [THE RETINOPATHY OF THE CHILDHOOD DIABETIC (AUTHORS TRANSL.)]** Fischer F *Klin Monatsbl Augenheilkd* 168: 186-9, Feb 76 (Ger) DL/76DEC272
- [CHANGES IN BODY HEIGHT IN DIABETIC CHILDREN]** Lajos B, Janos B *Orv Hetil* 117: 1932-4, 8 Aug 76 (Hun) DL/76DEC326
- EFFECT OF INDERAL ON INSULIN SECRETION, GLYCEMIA AND FFA CONCENTRA-**

Diabetes Literature—Hierarchical Index

1.F DIABETES

- TION IN NORMAL SUBJECTS AND DIABETICS.** Eisner M, Dobrohrska H, Stachowski A, Malinowski M, Tustanowski S *Pol Med Sci Hist Bull* 15: 169-75, Apr-Jun 76 (Eng) DL/76DEC336
- SECRETION OF GROWTH HORMONE IN THE INSULIN TEST IN VARIOUS FORMS OF DIABETES.** Sieradzki J, Szybinski Z *Pol Med Sci Hist Bull* 15: 185-90, Apr-Jun 76 (Eng) DL/76DEC338
- FELINE DIABETES MELLITUS.** Schaer M *Vet Clin North Am* 6: 453-61, Aug 76 (Eng) [17] DL/76DEC397
- [MEASUREMENT OF KIDNEY CONCENTRATING ABILITY IN CHILDREN WITH NON-RENAL GLYCOSURIA]** Jahrig K, Zollner H, Giese U *Z Gesamte Inn Med* 31: 317-21, 15 May 76 (Ger) DL/76DEC404
- 1.F.5 DIABETES, IMMUNOLOGY**
- AUTOIMMUNITY AND DIABETES MELLITUS.** MacCuish AC *Br J Clin Pract* 30: 131-5, Jun-Aug 76 (Eng) DL/76DEC6
- [DIABETES MELLITUS AND ADDISONS DISEASE]** Boda Z, Orosz L, Misz N, Szabo G, Gergely P, Kulcsar A *Endokrinologie* 67: 215-9, Jun 76 (Ger) DL/76DEC112
- [THE CLINICAL AND IMMUNOLOGICAL ASSOCIATION OF INSULIN ANTIBODIES AND THYROID ANTIBODIES IN DIABETICS (AUTHORS TRANSL.)]** Nagaoka K, Kurahachi H, Nabeya N, Sakurami T, Fukase M *Folia Endocrinol Jpn* 51: 878-86, 20 Nov 75 (Jpn) DL/76DEC126
- IMMUNOPATHOLOGY OF RENAL EXTRACELLULAR MEMBRANES IN DIABETES MELLITUS. SPECIFICITY OF TUBULAR BASEMENT-MEMBRANE IMMUNOFLOUORESCENCE.** Miller K, Michael AF *Diabetes* 25: 701-8, Aug 76 (Eng) DL/76DEC137
- HUMORAL IMMUNODEFICIENCY TO BACTERIAL ANTIGENS IN PATIENTS WITH JUVENILE ONSET DIABETES MELLITUS.** Ludwig H, Eibl M, Scherthauer G, Erd W, Mayr WR *Diabetologia* 12: 259-62, Jul 76 (Eng) DL/76DEC161
- HLA AND PANCREATIC ISLET CELL ANTIBODIES IN DIABETES.** Morris PJ, Irvine WJ, Gray RS, Duncan LJ, Vaughan H, McCallum FJ, Campbell CJ, Farquhar JW *Lancet* 02: 652-3, 25 Sep 76 (Eng) DL/76DEC276
- LETTER: AUTOIMMUNITY TO GLUCAGON IN A DIABETIC NOT ON INSULIN.** Baba S, Morita S, Mizuno N, Okada K *Lancet* 2: 585, 11 Sep 76 (Eng) DL/76DEC281
- HLA ANTIGENS AND IMMUNORESPONSIVENESS TO INSULIN IN INSULIN-DEPENDENT DIABETES MELLITUS.** Bertrams J, Jansen FK, Gruncklee D, Reis HE, Drost H, Beyer J, Gries FA, Kuwert E *Tissue Antigens* 8: 13-9, Jul 76 (Eng) DL/76DEC376
- INHERITANCE OF A WEAK HLA-BW35 ANTIGEN IN A DANISH FAMILY.** Hansen HE *Tissue Antigens* 8: 49-53, Jul 76 (Eng) DL/76DEC377
- 1.F.6 DIABETES COMPLICATIONS AND PATHOLOGY**
- 1.F.6.1 DIABETIC KETOACIDOSIS**
- 1.F.6.1.1 ACIDOSIS, DIABETIC**
- SEVERE DIABETIC METABOLIC DECOMPENSATION.** Munro JF *Br J Clin Pract* 30: 141-4, Jun-Aug 76 (Eng) DL/76DEC8
- DIABETES MELLITUS IN FILIPINO CHILDREN.** Cagas CR *Clin Pediatr (Phila)* 15: 801-2, Sep 76 (Eng) DL/76DEC85
- PHARMACOKINETIC EVALUATION OF DOSING REGIMENS FOR INSULIN IN DIABETIC KETOACIDOSIS.** Hayton WL, Grisafe JA, Pharm B *Diabetes* 25: 771-5, Sep 76 (Eng) DL/76DEC147
- POSSIBLE SIDE EFFECTS OF GLUCOSE, FRUCTOSE, SORBITOL AND XYLITOL IN MAN.** Forster H *Int J Vitam Nutr Res* 116-30, 1976 (Eng) DL/76DEC191
- METABOLIC ACIDOSIS.** Coleman M *J Arkansas Med Soc* 73: 145-7, Aug 76 (Eng) DL/76DEC208
- LACTIC ACIDOSIS IN ASSOCIATION WITH PHENOFORMIN THERAPY: REPORT OF TWO CASES.** Bjordahl R *J Am Osteopath Assoc* 75: 1061-5, Aug 76 (Eng) DL/76DEC230
- CONTINUOUS LOW-DOSE INFUSION OF INSULIN IN THE TREATMENT OF DIABETIC KETOACIDOSIS IN CHILDREN.** Martin MM, Martin AA *J Pediatr* 89: 560-4, Oct 76 (Eng) DL/76DEC256
- [LACTIC ACIDOSIS AND BIGUANID THERAPY (AUTHORS TRANSL.)]** Timme W, Buschmann HJ, Dissmann W, Amft R *Med Klin* 71: 1429-33, 3 Sep 76 (Ger) DL/76DEC302
- RATIONALE FOR NOT USING BICARBONATE.** Matz R *NY State J Med* 76: 1299-1303, Aug 76 (Eng) DL/76DEC323
- [IMPORTANCE OF OSMOLALITY IN DIABETIC EMERGENCY-SITUATIONS]** Mesko K, Javor A *Z Gesamte Inn Med* 31: 337-40, 15 May 76 (Ger) DL/76DEC405
- [CURRENT STATUS OF THE DIAGNOSIS AND THERAPY OF DIABETIC COMA]** Brandl WR, Gerlach D, Kronenberg KH, Muller K *ZFA (Stuttgart)* 52: 1220-4, 31 Aug 76 (Ger) [16] DL/76DEC421
- PERITONEAL DIALYSIS IN HYPERNATRAEMIC, KETOACIDOTIC DIABETIC COMA.** Kolendorf K, Moller BB *Acta Med Scand* 200: 75-77, 1976 (Eng) DL/76DEC436
- [INSULIN]** Navalesi R *Ann Ist Super Sanita* 11: 136-47, 1975 (Ita) DL/76DEC465
- LACTIC ACIDOSIS IN DIABETIC PATIENTS.** Fulop M, Hoberman HD, Rascoff JH, Bonheim NA, Dreyer NP, Tannenbaum H *Arch Intern Med* 136: 987-90, Sep 76 (Eng) DL/76DEC474
- EFFECTS OF FRUCTOSE AND GLUCOSE ON ETHANOL-INDUCED METABOLIC CHANGES AND ON THE INTENSITY OF ALCOHOL INTOXICATION AND HANGOVER.** Ylikahri RH, Leino T, Huttunen MO, Poso AR, Eriksson CJ, Nikkila Eur *J Clin Invest* 6: 93-102, 30 Jun 76 (Eng) *DL/76DEC560
- EFFECT OF KETOSIS ON RESPIRATORY SENSITIVITY TO CARBON DIOXIDE IN OBESITY.** Fried PI, McLean PA, Phillipson EA, Zamel N, Murray FT, Marliss EB *N Engl J Med* 294: 1081-6, 13 May 76 (Eng) *DL/76DEC661
- INHIBITION BY ACIDOSIS OF ADENOSINE 3,5-CYCLIC MONOPHOSPHATE ACCUMULATION AND LIPOLYSIS IN ISOLATED RAT FAT CELLS.** Fredholm BB, Hjendahl P *Acta Physiol Scand* 29: 160-9, Feb 76 (Eng) *DL/76DEC719
- CYCLIC AMP-DEPENDENT AND INDEPENDENT INHIBITION OF LIPOLYSIS BY ADENOSINE AND DECREASED PH. Hjendahl P, Fredholm BB *Acta Physiol Scand* 29: 170-9, Feb 76 (Eng) *DL/76DEC720**
- RECENT ADVANCES IN RENAL TUBULAR BIOCHEMISTRY.** Stoff JS, Epstein FH, Narins R, Relman AS *Annu Rev Physiol* 38: 46-68, 1976 (Eng) [182] *DL/76DEC758
- 1.F.6.1.2 DIABETIC COMA**
- TREATMENT OF DIABETIC COMA WITH LOW-DOSE INJECTIONS OF INSULIN.** Menzel R, Zander E, Jutzi E *Endokrinologie* 67: 230-9, Jun 76 (Eng) DL/76DEC113
- [CLINICAL ASPECTS AND TREATMENT OF COMATOSE STATES]** Sencken AN, Krylov AA *Voen Med Zh* 30-5, 1976 (Rus) DL/76DEC399
- [DISTURBANCES OF CONSCIOUSNESS OF OLD PEOPLE FROM INTERNAL VIEW (AUTHORS TRANSL.)]** Sclaff F *ZFA (Dresden)* 51: 13-9, 1976 (Ger) DL/76DEC401
- [IMPORTANCE OF OSMOLALITY IN DIABETIC EMERGENCY-SITUATIONS]** Mesko K, Javor A *Z Gesamte Inn Med* 31: 337-40, 15 May 76 (Ger) DL/76DEC405
- [CURRENT STATUS OF THE DIAGNOSIS AND THERAPY OF DIABETIC COMA]** Brandl WR, Gerlach D, Kronenberg KH, Muller K *ZFA (Stuttgart)* 52: 1220-4, 31 Aug 76 (Ger) [16] DL/76DEC421
- PERITONEAL DIALYSIS IN HYPERNATRAEMIC, KETOACIDOTIC DIABETIC COMA.** Kolendorf K, Moller BB *Acta Med Scand* 200: 75-77, 1976 (Eng) DL/76DEC436
- 1.F.6.2 DIABETIC ANGIOPATHIES**
- [BEHAVIOR OF HGH IN DIABETIC AND ARTERIOSCLEROTIC ARTERIOPATHIES IN RESPONSE TO PHYSICAL EXERCISE]** Consolo F, Russo A, Pitrone F, Ferrau O *Boll Soc Ital Biol Sper* 51: 1950-6, 30 Dec 75 (Ita) DL/76DEC2
- [INCIDENCE OF CORONARY CARDIOPATHY IN 416 DIABETIC PATIENTS TREATED WITH INSULIN OR ORAL HYPOLYCEMIC AGENTS]** Comi D, Santagostino A, Ragainsi S, Baroni GC, Porro T, Pagani G *Boll Soc Ital Cardiol* 20: 73-80, 1975 (Ita) DL/76DEC4
- INSULIN: FUNDAMENTAL MECHANISM OF ACTION AND THE HEART.** Kones RJ, Phillips JH *Cardiology* 60: 280-303, 1975 (Eng) [70] DL/76DEC63
- THE ASSOCIATION BETWEEN SERUM TRIGLYCERIDES AND GAMMA GLUTAMYL TRANSPEPTIDASE ACTIVITY IN DIABETES MELLITUS.** Martin JV, Hague RV, Martin PJ, Cullen DR, Goldberg DM *Clin Biochem* 9: 208-11, Aug 76 (Eng) DL/76DEC70
- IS CIGARETTE SMOKING MORE FREQUENT AMONG INSULIN-TREATED DIABETICS** Czyzyk A, Krolewski AS *Diabetes* 25: 717-8, Aug 76 (Eng) DL/76DEC140
- LATE COMPLICATIONS OF DIABETES. A CONTINUING CHALLENGE. THE ELLIOTT P. JOSLIN MEMORIAL LECTURE OF THE GERMAN DIABETES FEDERATION.** Marble A *Diabetologia* 12: 193-9, Jul 76 (Eng) DL/76DEC153
- BLOOD GLYCOPROTEIN LEVELS IN DIABETES MELLITUS.** Jonsson A, Wales JK *Diabetologia* 12: 245-50, Jul 76 (Eng) DL/76DEC159

I.F DIABETES

THE MEASUREMENT OF SKIN BLOOD FLOW IN PERIPHERAL VASCULAR DISEASE BY EPICUTANEOUS APPLICATION OF XENON133. Kostuik JP, Wood D, Hornby R, Feingold S, Mathews V *J Bone Joint Surg [Am]* 58: 833-7, Sep 76 (Eng) DL/76DEC212

ASSESSMENT OF THE CORRELATIONS OF DIABETIC VASCULAR COMPLICATIONS. El-Badry A, Ramzy MF, El Ayadi A, Hassaballa AM, Barsoum RS, Elwy AM, El-Bagoury I *J Egypt Med Assoc* 58: 249-69, 1975 (Eng) DL/76DEC227

MITOCHONDRIAL OXIDATIVE PHOSPHORYLATION IN MYOCARDIAL ISCHAEMIA: EFFECTS OF GLYCEROL, GLUCOSE AND INSULIN ON ANOXIC HEARTS PERFUSED AT LOW PRESSURE. Lochner A, Kotze JC, Gevers W *J Mol Cell Cardiol* 8: 575-84, Jul 76 (Eng) DL/76DEC265

DIET IN THE MANAGEMENT OF DIABETES. WHY DIET THE DIABETIC? Whyte HM *Med J Aust* 1: 836-8, 29 May 76 (Eng) DL/76DEC295

SECRETION OF GROWTH HORMONE IN THE INSULIN TEST, AND THE DEVELOPMENT OF DIABETIC MICROANGIOPATHY. Sieradzki J *Pol Med Sci Hist Bull* 15: 191-6, Apr-Jun 76 (Eng) DL/76DEC339

DIET AND DIABETES. West KM *Postgrad Med* 60: 209-16, Sep 76 (Eng) DL/76DEC340

[ESTIMATION OF RISK AS A FUNCTION OF RISK FACTORS. II.—APPLICATION TO THE MULTIVARIATE ANALYSIS OF CORONARY HEART DISEASE IN A MIDDLE AGED MALE POPULATION (AUTHORS TRANSL.)] Ducimetiere P, Richard JL, Rakotovo R, Claude JR *Rev Epidemiol Sante Publique* 24: 131-40, Mar-Apr 76 (Fre) DL/76DEC354

EPIDEMIOLOGIC STUDIES OF DIABETES IN THE PIMA INDIANS. Bennett PH, Rushforth NB, Miller M, LeCompte PM *Recent Prog Horm Res* 32: 333-76, 1976 (Eng) DL/76DEC356

EVALUATION OF USE OF THE RIGID DRESSING IN AMPUTATION OF THE LOWER EXTREMITY. Nicholas GG, DeMuth WE Jr *Surg Gynecol Obstet* 143: 398-400, Sep 76 (Eng) DL/76DEC374

RISK FACTORS IN LOCAL SURGICAL PROCEDURES FOR DIABETIC GANGRENE. Goodman J, Bessman AN, Teget B, Wagner W *Surg Gynecol Obstet* 143: 587-91, Oct 76 (Eng) DL/76DEC375

ULTRASTRUCTURE OF BLOOD VESSELS IN THE ABNORMAL HUMAN IRIS. I. THE IRIS OF A DIABETIC. Matsura H, Setogawa T *Yonago Acta Med* 19: 99-102, Aug 75 (Eng) DL/76DEC400

[DISTURBANCES OF CONSCIOUSNESS OF OLD PEOPLE FROM INTERNAL VIEW (AUTHORS TRANSL.)] Sielaff F *ZFA [Dresden]* 31: 13-9, 1976 (Ger) DL/76DEC401

[LATENT DIABETES MELLITUS IN FAMILIES WITH DIABETES AND ISCHEMIC HEART DISEASE] Kuruschwili RB *Z Gesamte Inn Med* 31: 334-6, 1 Feb 76 (Ger) DL/76DEC408

[FURTHER RESULTS OF A MULTI-CENTRE CLINICAL TRIAL WITH THE ORAL ANTI-DIABETIC DRUG GLISOXEPIDE (AUTHORS TRANSL.)] Blumenbach L, Kiesselbach N, Lehnert J *Arzneim Forsch* 26: 931-43, 1976 (Ger) DL/76DEC498

[STUDIES ON SOME METABOLIC EFFECTS OF DOPAMINE] Abate G, Descovich GC, Fracalaglio L, Naldoni C, Sangiorgi Z *Boll Soc Ital Cardiol* 18: 642-9, 1973 (Ita) *DL/76DEC503

LETTER: PROGRESSION AND REGRESSION OF ATHEROSCLEROSIS. Turner R *Br Med J* 1: 710-1, 20 Mar 76 (Eng) *DL/76DEC532

THE INFLUENCE OF MYOCARDIAL METABOLISM ON ISCHEMIC DAMAGE. Oliver MF *Circulation* 53: 168-70, Mar 76 (Eng) *DL/76DEC540

CONTRIBUTION OF TISSUE ACIDOSIS TO ISCHEMIC INJURY IN THE PERFUSED RAT HEART. Williamson JR, Schaffer SW, Ford C, Safer B *Circulation* 53: 3-14, Mar 76 (Eng) *DL/76DEC542

LIPID PROTEIN INTER-RELATIONSHIP IN AORTIC TISSUE OF EXPERIMENTALLY INDUCED ATHEROSCLEROSIS IN RABBITS AND ITS ALTERATION BY BENGAL GRAM. Sharma RD, Mathur KS *Indian Heart J* 27: 274-9, Oct 75 (Eng) *DL/76DEC575

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1.F DIABETES

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Diabetes Literature—Hierarchical Index

I.F DIABETES

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Diabetes Literature—Hierarchical Index

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1.F.7.3 DIABETES, CONGENITAL

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1.F.8 DIABETES, DIAGNOSIS RELATED

1.F.8.1 GLUCOSE TOLERANCE TEST (SEE SEC. 1.E.2)

1.F.8.2 DIABETES, DIAGNOSIS

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1.F.9 DIABETES, THERAPY RELATED

1.F.9.1 DIABETES, PREVENTION AND CONTROL

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1.F.9.2.1 OBESITY IN DIABETES

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Diabetes Literature—Hierarchical Index

1.F DIABETES

- doocrinol Metabol* 5: 377-95, Jul 76 (Eng) [65] DL/76DEC76
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- EXERCISE IN THE TREATMENT OF OBESITY.** Bjorntorp P *Clin Endocrinol Metabol* 5: 431-53, Jul 76 (Eng) DL/76DEC79
- [SPECIAL FORMS OF DIET]** Gutsche H *Dtsch Krankenpflege* 29: 420-2, 1 Aug 76 (Ger) DL/76DEC93
- ANORECTIC DRUGS: USE IN GENERAL PRACTICE.** Craddock D *Drugs* 11: 378-93, 1976 (Eng) [60] DL/76DEC95
- THEORETICAL MODEL OF RUMINANT ADIPOSE TISSUE METABOLISM IN RELATION TO THE WHOLE ANIMAL.** Baldwin RL, Yang YT, Crist K, Grichting G *Fed Proc* 35: 2314-8, Sep 76 (Eng) [77] DL/76DEC123
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- SUBSTRATE MOBILIZATION: A NEW HYPOTHESIS FOR THE AETIOLOGY OF THE IDIOPATHIC RESPIRATORY DISTRESS SYNDROME.** Hutchison AA *Med Hypotheses* 2: 168-73, Jul-Aug 76 (Eng) DL/76DEC293
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- [EFFECTS OF FASTING, OF WEIGHT REDUCTION AND REALIMENTATION ON THE ENDOCRINE-METABOLIC FUNCTION OF THE OBES SUBJECTS]** Fraioli F, Genazzani AR, Conte D, Piro C, Dondero F *Folia Endocrinol (Roma)* 27: 614-25, Dec 74 (Ita) *DL/76DEC567
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- [ISOMATIC THERAPY OF OBESITY DUE TO OVEREATING]** Holzer KH *Monatsschr Kin-derheilkd* 123: 259-63, May 75 (Ger) *DL/76DEC656
- PROLONGED-ACTION FENFLURAMINE IN NON-DIABETIC PATIENTS WITH REFRACTORY OBESITY.** Galloway DB, Logie AW, Petrie JC *Postgrad Med J* 51 SUPPL 1: 155-7, 1975 (Eng) *DL/76DEC674
- 1.F.9.2.4 DIABETIC DIET**
- [SPECIAL FORMS OF DIET]** Gutsche H *Dtsch Krankenpflege* 29: 420-2, 1 Aug 76 (Ger) DL/76DEC93
- [NUTRITIONAL INSTRUCTION. 6. DIET INSTRUCTION FOR PREGNANT PATIENTS WITH DIABETES]** Nishihara T *Jpn J Midwife* 30: 372-3, Jun 76 (Jpn) DL/76DEC270
- EDITORIAL: DIABETIC DIETS—A REASSESSMENT.** Anonymous *Med J Aust* 1: 811-2, 29 May 76 (Eng) DL/76DEC294
- DIET IN THE MANAGEMENT OF DIABETES. WHY DIET THE DIABETIC** Whyte HM *Med J Aust* 1: 836-8, 29 May 76 (Eng) DL/76DEC295
- DIET IN THE MANAGEMENT OF DIABETES. WHY RESTRICT CARBOHYDRATE.** Taft P *Med J Aust* 1: 838-40, 29 May 76 (Eng) DL/76DEC296
- DIET IN THE MANAGEMENT OF DIABETES. WHY RESTRICT DIETARY FAT AND PROTEIN** Wise P *Med J Aust* 1: 840-1, 29 May 76 (Eng) DL/76DEC297
- DIET IN THE MANAGEMENT OF DIABETES. WHY HAVE SPECIAL DIABETIC FOODS** Court JM *Med J Aust* 1: 841-3, 29 May 76 (Eng) DL/76DEC298
- DIET IN THE MANAGEMENT OF DIABETES. DIABETIC PORTION SIZES.** Hosking M *Med J Aust* 1: 843-4, 29 May 76 (Eng) DL/76DEC299
- USING DIET EXCHANGES.** Boykin L *Nurs Care* 9: 17-20, Sep 76 (Eng) DL/76DEC333
- DIET AND DIABETES.** West KM *Postgrad Med* 60: 209-16, Sep 76 (Eng) DL/76DEC340
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- 1.F.9.2.5 DIETARY CARBOHYDRATES**
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- COMPARISON OF THE SUPPRESSIVE EFFECTS OF ELEVATED PLASMA GLUCOSE AND FREE FATTY ACID LEVELS ON GLUCAGON SECRETION IN NORMAL AND INSULIN-DEPENDENT DIABETIC SUBJECTS. EVIDENCE FOR SELECTIVE ALPHA-CELL INSSENSITIVITY TO GLUCOSE IN DIABETES MELLITUS.** Gerich JE, Langlois M, Noacco C, Lorenzi M, Karam JH, Korsham PH *J Clin Invest* 58: 320-5, Aug 76 (Eng) DL/76DEC219
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- HLA ANTIGENS AND IMMUNORESPONSIVENESS TO INSULIN IN INSULIN-DEPENDENT DIABETES MELLITUS.** Bertrams J, Jansen FK, Gruncklee D, Reis HE, Drost H, Beyer J, Gries FA, Kuwert E *Tissue Antigens* 8: 13-9, Jul 76 (Eng) DL/76DEC376
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- 1.F.9.6 DIABETES THERAPY**
- EDITORIAL: DIABETES MELLITUS IN THE AGED.** Cantelon JF *Can Med Assoc J* 115: 487, 18 Sep 76 (Eng) DL/76DEC58
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- SERVING ON THE HEALTH TEAM AT SUMMER CAMP FOR DIABETIC CHILDREN.** Bosso JA *J Am Pharm Assoc* 16: 463-4, Aug 76 (Eng) DL/76DEC229
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- 1.F.9.7 DIABETES, RADIOGRAPHY**
- 1.F.9.8 DIABETES, SURGERY**
- 1.F.9.9 DIABETES, MORTALITY**
- 1.F.10 DIABETES, EXPERIMENTAL**
- 1.F.10.1 DIABETES, CHEMICALLY INDUCED**
- THE EFFECT OF AN UNSATURATED-FAT DIET ON CATARACT FORMATION IN STREPTOZOTOCIN-INDUCED DIABETIC RATS.** Hutton JC, Schofield PH, Williams JF, Regtop HL, Hollows FC *Br J Nutr* 36: 161-77, Sep 76 (Eng) DL/76DEC19
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- 1.F.10.2.1 ALLOXAN DIABETES, BLOOD**
- 1.F.10.2.2 ALLOXAN DIABETES, DRUG THERAPY**

1.F DIABETES

1.F.10.2.3 ALLOXAN DIABETES, ENZYMOLOGY

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1.F.10.2.5 ALLOXAN DIABETES, PATHOLOGY

1.F.10.2.6 ALLOXAN DIABETES, PHYSIOPATHOLOGY

1.F.11 DIABETES, VETERINARY

FELINE DIABETES MELLITUS. Schaefer M *Vet Clin North Am* 6: 453-61, Aug 76 (Eng) [17] DL/76DEC397

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SECTION 2. ENDOCRINOLOGY AND RELATED TOPICS

2.A ENDOCRINE PANCREAS

2.A.1 ISLETS (SEE SEC. 1.A)

2.A.2 INSULIN (SEE SEC. 1.C)

2.A.3 GLUCAGON (SEE SEC. 1.D)

2.B ADRENAL GLANDS

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2.B.1 ADRENAL CORTEX

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2.F.3.3.1 CORPUS LUTEUM HORMONES

2.F.3.3.2 PROGESTATIONAL HORMONES

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2.G.4 PINEAL BODY

2.G.5 PITUITARY-ADRENAL SYSTEM

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ACTH

SEE ADRENOCORTICOTROPIC HORMONE

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ANTIHISTAMINIC AGENT

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Diabetes Literature—Keyword Index

ANTILIPOLYTIC

ANTILIPOLYTIC

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ANTILIPOLYTIC ACTION

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AORTIC TISSUE

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AORTIC WALL

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ARGININE INFUSION

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BASEMENT MEMBRANE THICKNESS

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AUTORADIOGRAPHIC, LIGHT

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BASEMENT MEMBRANE THICKNESS

CARBOHYDRATE METABOLISM AND CAPILLARY BASEMENT-MEMBRANE THICKNESS

Diabetes Literature—Keyword Index

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GLUCOSE

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CONDITIONS AFFECTING THE BIOSYNTHESIS OF LIPIDS IN THE SMALL INTESTINE.

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LIPOLYTIC EFFECT

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Diabetes Literature—Keyword Index

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PROINSULIN-INSULIN

PROINSULIN-INSULIN

EFFECT OF FASTING ON THE INCORPORATION OF $[3H]$ -L-PHENYLALANINE INTO PROINSULIN-INSULIN AND TOTAL PROTEIN IN ISOLATED RAT PANCREATIC ISLETS. Tjioe TO, Bouman PR *Horm Metab Res* 8: 261-6, Jul 76 (Eng) DL/76DEC178

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Diabetes Literature—Keyword Index

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Diabetes Literature—Keyword Index

SOMATOMAMMOTROPIN, HUMAN CHORIONIC

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STOMACH, PERFUSED

EFFECT OF GLUCAGON ON MYOELECTRIC AND MECHANICAL ACTIVITY OF THE

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TRANSPLANTATION, PANCREATIC

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SEE THYROTROPIN RELEASING HORMONE

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THE ASSOCIATION BETWEEN SERUM TRIGLYCERIDES AND GAMMA GLUTAMYL

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SOMATOTROPIN RELEASE INHIBITING
HORMONE (immunology, metabolism);
STOMACH (metabolism); UNITED STATES
GOVERNMENT SUPPORTED, N.I.H.;
UNITED STATES GOVERNMENT
SUPPORTED, NON-N.I.H.).

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GLUCOSE TOLERANCE TEST; GLYCOGEN
(metabolism); INSULIN (secretion); ISLANDS
OF LANGERHANS (drug effects, metabolism,
pathology); LIPASE (metabolism); MALE;
ORGAN WEIGHT (drug effects); PANCREAS
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RECEPTOR BLOCKADERS
(pharmacodynamics); ANIMAL EXPERIMENTS
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COMPARATIVE STUDY; ENGLISH
ABSTRACT; FATTY ACIDS, NONESTERIFIED
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HYPERINSULINISM (metabolism);
HYPOTHALAMUS (physiology); INSULIN
RESISTANCE; INSULIN (metabolism); ISLANDS
OF LANGERHANS (metabolism); LIPIDS
(metabolism); LIPOPROTEINS, VLDL
(metabolism); LIVER (metabolism); MICE;
MICE, INBRED C57BL; MICE, OBESE;
MUSCLES (metabolism); OBESITY
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DIETARY CARBOHYDRATES; HUMAN;
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(metabolism); MALE; MERCURY
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(pharmacodynamics); IN VITRO; ISLANDS OF LANGERHANS (drug effects, secretion); KINETICS; MALE; RADIOIMMUNOASSAY; RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (immunology, secretion); THEOPHYLLINE (pharmacodynamics).

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DIGLYCERIDES (biosynthesis); FATTY ACIDS, NONESTERIFIED (biosynthesis); FEMALE; GLUCOSE (metabolism); GLYCERIDES (biosynthesis); IN VITRO; MALE; MYOCARDIUM (metabolism); OXYGEN CONSUMPTION; PALMITIC ACIDS (metabolism); PARTIAL PRESSURE; PERFUSION; STEROLS (biosynthesis); TRIGLYCERIDES (biosynthesis); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.)

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ANIMAL EXPERIMENTS; ATROPINE (pharmacodynamics); DIETARY FATS; DOGS; DUODENUM (physiology, innervation);

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Cremel G

GUANETHIDINE (pharmacodynamics);
HEXAMETHONIUM COMPOUNDS
(pharmacodynamics); HYDROCHLORIC ACID
(pharmacodynamics); HYPERTONIC
SOLUTIONS (pharmacodynamics);
NOREPINEPHRINE (pharmacodynamics);
OLEIC ACIDS (pharmacodynamics);
PHENOXYBENZAMINE (pharmacodynamics);
PHENTOLAMINE (pharmacodynamics);
PROPRANOLOL (pharmacodynamics);
RECEPTORS, ADRENERGIC; RESERPINE
(pharmacodynamics); STIMULATION,
CHEMICAL.

Coon WW

RISK FACTORS IN PULMONARY EMBOLISM.
Coon WW *Surg Gynecol Obstet* 143: 385-90, Sep
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ADOLESCENCE; ADULT; AGE FACTORS;
AGED; CHILD; CHILD, PRESCHOOL;
DIABETES MELLITUS (complications);
FEMALE; HEART DISEASES (complications);
HOSPITAL UNITS, HUMAN; INFANT; MALE;
MICHIGAN; MIDDLE AGE; NEOPLASMS
(complications); OBESITY (complications);
PARAPLEGIA (complications);
POSTOPERATIVE COMPLICATIONS
(occurrence); PROBABILITY; PULMONARY
EMBOLISM (complications, occurrence); RISK;
SEX FACTORS; WOUNDS AND INJURIES
(complications).

Cooper B

**HUMAN FAT CELL ADENYLATE CYCLASE,
ENZYME CHARACTERIZATION AND
GUANINE NUCLEOTIDE EFFECTS ON
EPINEPHRINE RESPONSIVENESS IN CELL
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(pharmacodynamics); ADENYL CYCLASE
(metabolism); ADIPOSE TISSUE (enzymology);
ADULT; CELL MEMBRANE (enzymology);
CORTICOTROPIN (pharmacodynamics);
EPINEPHRINE (pharmacodynamics); FEMALE;
FLUORIDES (pharmacodynamics); GLUCAGON
(pharmacodynamics); GUANINE
NUCLEOTIDES (pharmacodynamics);
GUANOSINE TRIPHOSPHATE
(pharmacodynamics); HUMAN; HYDROGEN-
ION CONCENTRATION (physiology);
MAGNESIUM (pharmacodynamics); MALE;
TEMPERATURE.

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**SEBACEOUS LIPOGENESIS IN HUMAN SKIN.
VARIABILITY WITH AGE AND WITH
SEVERITY OF ACNE.** Cooper MF, McGrath H,
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ACNE (metabolism); ADOLESCENCE; ADULT;
AGE FACTORS; DIGLYCERIDES (biosynthesis);
FATTY ACIDS, NONESTERIFIED
(biosynthesis); GLUCOSE (metabolism);
HUMAN; IN VITRO; LIPIDS (biosynthesis);
MALE; MIDDLE AGE; SEBACEOUS GLANDS
(metabolism); SEBUM (secretion); SKIN
(metabolism); SQUALENE (biosynthesis);
STEROLS (biosynthesis); TRIGLYCERIDES
(biosynthesis).

Corbin JD

**STUDIES ON THE ALPHA-ADRENERGIC AC-
TIVATION OF HEPATIC GLUCOSE OUTPUT.
II. INVESTIGATION OF THE ROLES OF
ADENOSINE 3,5-MONOPHOSPHATE AND
ADENOSINE 3,5-MONOPHOSPHATE-DE-
PENDENT PROTEIN KINASE IN THE AC-
TIONS OF PHENYLEPHRINE IN ISOLATED
HEPATOCYTES.** Cherrington AD, As-
simacopoulos FD, Harper SC, Corbin JD, Park
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HYPOGLYCEMIA, A CONSEQUENCE OF
MALICIOUS INSULIN ADMINISTRATION.**
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ESTERASES, INSULIN AND THYROID HOR-
MONES.** Correze C, Auclair R, Nunez J *Mol Cell
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ANIMAL EXPERIMENTS (analysis);
GUANOSINE CYCLIC 3,5 MONOPHOSPHATE
(pharmacodynamics); HYPOTHYROIDISM
(enzymology); INSULIN (pharmacodynamics);
KINETICS; MALE; PHOSPHODIESTERASES
(metabolism); RATS; THYROIDECTOMY; 3,5-
CYCLIC AMP PHOSPHODIESTERASE
(metabolism).

Costa D

**LEVELS OF GROWTH HORMONE, PROLAC-
TIN AND INSULIN IN THE COURSE OF
ACUTE ADMINISTRATION OF CHLOR-
PROMAZINE (PLEGOMAZIN) IN
PSYCHIATRIC PATIENTS]** Costa D,
Simionescu L, Oprescu M *Rev Med Intern
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ADULT; BODY WEIGHT (drug effects);
CHLORPROMAZINE (pharmacodynamics,
therapeutic use); ENGLISH ABSTRACT;
FEMALE; HUMAN; INSULIN (blood); MALE;
MENTAL DISORDERS (drug therapy);
PROLACTIN (blood); SOMATOTROPIN
(blood).

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**CYCLIC AMP-DEPENDENT STIMULATION OF
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WHY HAVE SPECIAL DIABETIC FOODS?**
Court JM *Med J Aust* 1: 841-3, 29 May 76 (Eng)
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(analysis); ATTITUDE TO HEALTH; CHILD;
DIABETES MELLITUS (diet therapy);
DIABETIC DIET; FEMALE; FOOD; HUMAN;
RATS; SWEETENING AGENTS (adverse
effects).

Coy EJ

**ANALOGS OF LUTEINIZING HORMONE-
RELEASING HORMONE WITH INCREASED
BIOLOGICAL ACTIVITY PRODUCED BY D-
AMINO ACID SUBSTITUTIONS IN POSITION
6.** Coy DH, Vilchez-Martinez JA, Coy EJ,
Schally AV *J Med Chem* 19: 423-5, Mar 76
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AMINO ACID SEQUENCE; ANIMAL
EXPERIMENTS (analysis); FSH (blood); LH
(blood); MALE; RATS; STIMULATION,
CHEMICAL; STRUCTURE-ACTIVITY
RELATIONSHIP; UNITED STATES
GOVERNMENT SUPPORTED, N.I.H. ;
UNITED STATES GOVERNMENT
SUPPORTED, NON-N.I.H.).

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BIOLOGICAL ACTIVITY PRODUCED BY D-
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AFTER ENZYMATIC TREATMENT OF SODI-
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EPITHELIA.** Crabbe J, Khatchereian I, Prenen
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BIOLOGICAL TRANSPORT, ACTIVE (drug
effects); BUFO MARINUS;
CLOSTRIDIOPEPTIDASE A
(pharmacodynamics); EPITHELIUM
(metabolism); INSULIN (pharmacodynamics);
INTESTINAL MUCOSA (metabolism); RANA
TEMPORARIA; RECEPTORS, HORMONE (drug
effects); SKIN (metabolism); SODIUM
(metabolism).

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SENSITIVITY TO ALDOSTERONE DURING
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DEPRESSANTS (adverse effects, metabolism,
pharmacodynamics, therapeutic use); DIET,
REDUCING; DRUG ABUSE; DRUG
INTERACTIONS; DRUG TOLERANCE;
HUMAN; HYPERTENSION (complications);
OBESITY IN DIABETES (drug therapy);
OBESITY (complications, drug therapy);
OBESITY (metabolism); REVIEW.

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CONTROL.** Carson ER, Cramp DG *Int J Biomed
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ADULT; AMYLOPECTIN (diagnostic use);
BLOOD SUGAR (metabolism); COOKERY;
DIETARY CARBOHYDRATES, DIGESTION;
FEMALE; GLUCOSE TOLERANCE TEST;
GLUCOSE (diagnostic use); HUMAN; INSULIN
(blood); MALE; MIDDLE AGE; RICE; STARCH
(diagnostic use); STRUCTURE-ACTIVITY
RELATIONSHIP; SUCROSE (diagnostic use);
TIME FACTORS; UNITED STATES
GOVERNMENT SUPPORTED, N.I.H.);
VEGETABLES.

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**A NOVEL MANUAL METHOD FOR PROTEIN-
SEQUENCE ANALYSIS.** Chang JY, Creaser EH
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THE FETAL LAMB.** Char VC, Creasy RK *Am J
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**REVERSIBLE INTRAMITOCHONDRIAL
RELEASE OF PROTEIN RELATED TO UN-**

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ANIMAL EXPERIMENTS (analysis);
ASPARTATE AMINOTRANSFERASE (metabolism); **BINDING SITES**; **DIETARY FATS**; **FATTY ACIDS**, NONESTERIFIED (metabolism); **KINETICS**; **MALATE DEHYDROGENASE** (metabolism); **MALE**; **MEMBRANES** (metabolism); **MITOCHONDRIA**, LIVER (metabolism); **PROTEIN BINDING**; **PROTEINS** (metabolism); **RATS**; **TEMPERATURE**.

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SENSORY SKIN FLAPS FOR COVERAGE OF PRESSURE SORES IN PARAPLEGIC PATIENTS. A PRELIMINARY REPORT. Daniel RK, 758063, Cunningham DM *Plast Reconstr Surg* 58: 317-28, Sep 76 (Eng) DL/76DEC352

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THE RELEVANCE OF BOTH PLASMA FREE TRYPTOPHAN AND INSULIN TO RAT BRAIN TRYPTOPHAN CONCENTRATION. Fernando JC, Knott PJ, Curzon G *J Neurochem* 27: 343-5, Jul 76 (Eng) DL/76DEC252

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IS CIGARETTE SMOKING MORE FREQUENT AMONG INSULIN-TREATED DIABETICS Czyzyk A, Krolewski AS *Diabetes* 25: 717-8, Aug 76 (Eng) DL/76DEC140
DIABETES MELLITUS (complications, drug therapy); **DIABETIC ANGIOPATHIES** (occurrence); **FEMALE**; **HUMAN**; **INSULIN** (therapeutic use); **MALE**; **POLAND**; **SMOKING** (occurrence).

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(therapeutic use); SOMATOTROPIN (blood); STEROIDS (urine); TIME FACTORS.

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BENEFICIAL METABOLIC EFFECTS OF METHYLPREDNISOLONE SODIUM SUCCINATE IN ACUTE MYOCARDIAL ISCHEMIA. Masters TN, Harbold NB Jr, Hall DG, Jackson RD, Mullen DC, Daugherty HK, Robicsek F *Am J Cardiol* 37: 557-63, 31 Mar 76 (Eng) *DL/76DEC725

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de Kruyff B

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Diabetes Literature—Author Index

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INJECTIONS, INTRAVENOUS; INSULIN (blood); MALE; MIDDLE AGE; SORBITOL (pharmacodynamics); TIME FACTORS; TOLBUTAMIDE (pharmacodynamics); URIC ACID (blood); XYLITOL (pharmacodynamics).

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 HUMAN; INFANT MORTALITY; INFANT;
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[CHRONIC TOXICITY OF 4-3-DIETHYLAMINO-2-HYDROXYPROPYL]-AJ-MALINE HYDROGEN TARTRATE (TACHMALCOR) IN THE RAT] Grimm I, Sziegoleit W, Riedel H, Forster W. *Pharmazie* 31: 44-7, 1976 (Ger) *DL/76DEC683

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CYTOKALASIN B: EVIDENCE FOR A MEMBRANE-DIRECTED ACTION IN B-CELLS FROM RAT PANCREATIC ISLETS. Schauder P, Frerichs H *Pfluegers Arch* 364: 95-8, 29 Jun 76 (Eng) DL/76DEC329

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ADRENAL GLAND DISEASES (diagnosis); ADRENAL GLAND HYPERFUNCTION (diagnosis); CHOLESTEROL (diagnostic use); CUSHINGS SYNDROME (diagnosis); DIABETES MELLITUS (diagnosis); HUMAN; HYPERALDOSTERONISM (diagnosis); HYPERTRICHOSIS (diagnosis); IODINE ISOTOPES, DIAGNOSTIC; OVARIAN DISEASES (diagnosis); RADIOISOTOPE SCANNING (methods); SYNDROME.

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ADULT; AGED; AUSTRIA; DIABETES MELLITUS (drug therapy); DIABETIC RETINOPATHY (drug therapy, etiology, occurrence, therapy); ENGLISH ABSTRACT; HEMODYNAMICS; HUMAN; HYPOPHYSECTOMY; LIGHT COAGULATION (methods); MIDDLE AGE; RETINAL VESSELS (physiopathology).

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[NUTRITION COUNSELING AT THE BEDSIDE] Fuhrmann H *Dtsch Krankenpflegez* 29: 423-5, 1 Aug 76 (Ger) DL/76DEC94

DIABETES MELLITUS (diet therapy); DIET THERAPY; HEALTH EDUCATION; HUMAN; HYPERLIPIDEMIA (diet therapy); OBESITY (diet therapy); PATIENTS (education).

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HYDROXYBUTYRATES (blood); **LACTATES** (blood); **MALE; MIDDLE AGE;**
NITROPRUSSIDE (diagnostic use); **UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).**

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MIDDLE AGE; NURSE-PATIENT RELATIONS; PATIENT CARE TEAM; PATIENTS (education).

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Diabetes Literature—Author Index

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GLUCOSEPHOSPHATASE (metabolism);
GLUCOSIDASES (metabolism); GLYCOGEN
PHOSPHORYLASE (metabolism); GLYCOGEN
SYNTHETASE (metabolism); INSULIN
(pharmacodynamics); LIVER GLYCOGEN
(metabolism); LIVER (enzymology);
MOLECULAR WEIGHT; MUSCLES
(enzymology); ORGAN SPECIFICITY;
PHOSPHOMONESTERASES (metabolism);
PHOSPHORYLASE KINASE (metabolism);
PHOSPHORYLASE PHOSPHATASE
(metabolism); POTASSIUM
(pharmacodynamics); PROTEIN KINASE
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ADIPOSE TISSUE (metabolism, drug effects, cytology); **ANIMAL EXPERIMENTS**; **COMPARATIVE STUDY**; **DIET**; **DRUG INTERACTIONS**; **EPINEPHRINE** (pharmacodynamics); **MALE**; **NOREPINEPHRINE** (pharmacodynamics); **RATS**; **TRIGLYCERIDES** (blood).

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BODY WEIGHT; GLUCAGON (blood); INSULIN (blood); MALE; PROTEIN DEFICIENCY (blood, diet therapy); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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PLACENTA (anatomy & histology); PLACENTAL LACTOGEN (blood, physiology); PREGNANCY IN DIABETES (blood); PREGNANCY COMPLICATIONS (blood); PREGNANCY COMPLICATIONS, CARDIOVASCULAR (blood); PREGNANCY; PREGNANCY, MULTIPLE; PREGNANCY, PROLONGED; PRENATAL DIAGNOSIS; REVIEW; UTERINE NEOPLASMS (blood).

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REDUCTION OF HOSPITAL MORTALITY RATE OF ACUTE MYOCARDIAL INFARCTION WITH GLUCOSE-INSULIN-POTASSIUM INFUSION. Rogers WJ, Stanley AW Jr, Breinig JB, Prather JW, McDaniel HG, Moraski RE, Mantle JA, Russell RO Jr, Rackley CE *Am Heart J* 92: 441-54, Oct 76 (Eng) DL/76DEC439

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[MYOCARDIAL CONSUMPTION OF FREE FATTY ACIDS AND CARBOHYDRATES FOLLOWING TREATMENT WITH A NEW BETA-BLOCKER (1-O-METHOXYPHENOXY-3-ISOPROPYLAMINO-2-PROPANOL HCl) D 1601] Marchetti G, Merlo L, Nosedà V *Boll Soc Ital Cardiol* 18: 672-5, 1973 (Ita) *DL/76DEC504

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ACIDOSIS, DIABETIC (drug therapy); ADOLESCENCE; CHILD; CHILD, PRESCHOOL; FEMALE; HUMAN; HYPERGLYCEMIA (drug therapy); INFUSIONS, PARENTERAL; INSULIN (administration & dosage, blood, therapeutic use); KETOSIS, DIABETIC (drug therapy); MALE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

Diabetes Literature—Author Index

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THE ASSOCIATION BETWEEN SERUM TRIGLYCERIDES AND GAMMA GLUTAMYL TRANSPEPTIDASE ACTIVITY IN DIABETES MELLITUS. Martin JV, Hague RV, Martin PJ, Cullen DR, Goldberg DM *Clin Biochem* 9: 208-11, Aug 76 (Eng) DL/76DEC70

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COMPARATIVE STUDY; DEMYELINATION (enzymology); DIABETIC NEUROPATHIES (enzymology); ENGLISH ABSTRACT; ENZYMES (analysis); HISTOCYTOCHEMISTRY (methods); HUMAN; LIPIDS (analysis); NERVE FIBERS, MYELINATED (cytology); PERIPHERAL NERVES (analysis, enzymology); WALLERIAN DEGENERATION.

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INSULIN (blood); MALE; MIDDLE AGE; PEDIGREE; TRIGLYCERIDES (blood).

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BLOOD SUGAR (analysis); CASE REPORT; CHOLESTEROL (blood); DIAGNOSIS; DIFFERENTIAL; ENGLISH ABSTRACT; GLYCOGENOSIS (blood, diagnosis); HUMAN; INFANT; LIVER DISEASES (blood, diagnosis); MALE.

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ALBUMINS (metabolism); BASEMENT MEMBRANE (immunology); DIABETIC NEPHROPATHIES (immunology); DIABETIC NEUROPATHIES (pathology); FEMALE; FLUORESCENT ANTIBODY TECHNIC; HUMAN; IGA (metabolism); KIDNEY DISEASES (immunology); KIDNEY GLOMERULUS (immunology); KIDNEY TUBULES (immunology); KIDNEY (metabolism); KIDNEY (pathology, transplantation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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EFFECT OF KETOSIS ON RESPIRATORY SENSITIVITY TO CARBON DIOXIDE IN OBESITY, Fried PI, McClellan PA, Phillipson EA, Zamel N, Murray FT, Marliss EB *N Engl J Med* 294: 1081-6, 13 May 76 (Eng) *DL/76DEC661

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Fink CJ, Lacy PE *Endocrinology* 99: 535-40, Aug 76 (Eng) DL/76DEC98

ALLOXAN (antagonists & inhibitors); ANIMAL EXPERIMENTS (analysis); BIOLOGICAL TRANSPORT; GLUCOSE (pharmacodynamics); INSULIN (metabolism); ISLANDS OF LANGERHANS (metabolism); MALE; PERFUSION; RATS; TISSUE CULTURE; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (analysis); FEMALE; GLUCOSE (metabolism); LIVER CIRCULATION; LIVER (metabolism); LIVER (drug effects); MALE; METABOLIC CLEARANCE RATE (drug effects); OPOSSUMS (metabolism); ROSE BENGAL (metabolism); TIME FACTORS.

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Mirkovitch V

(pharmacodynamics); SOMATOTROPIN (secretion); X 537A (pharmacodynamics); XANTHINES (pharmacodynamics); 3,5-CYCLIC AMP PHOSPHODIESTERASE (antagonists & inhibitors).

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INTRAVENTRICULAR; INSULIN (blood); MALE; NERVE TISSUE PROTEINS (administration & dosage); PHENTOLAMINE (pharmacodynamics); PROPRANOLOL (pharmacodynamics); RATS; SOMATOTROPIN RELEASE INHIBITING HORMONE (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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ANIMAL EXPERIMENTS (analysis); GASTROINTESTINAL HORMONES (pharmacodynamics); GLUCOSE (pharmacodynamics); IN VITRO; INSULIN (pharmacodynamics, secretion); KINETICS; MALE; PANCREAS (drug effects, secretion); PEPTIDES (pharmacodynamics); PERFUSION; RATS.

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ADMINISTRATION, INTRANASAL; ADMINISTRATION, ORAL; AGED; ALBUTEROL (administration & dosage, pharmacodynamics); BLOOD SUGAR (analysis); COMPARATIVE STUDY; DRUG EVALUATION; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; LIPIDS (blood); MALE; MIDDLE AGE.

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BINDING, COMPETITIVE; ELECTRIC
CONDUCTIVITY; ELECTRIC ORGAN
(metabolism); FISHES; KINETICS; LECTHINS;
LIPOPROTEINS; MEMBRANES, ARTIFICIAL;
MODELS, BIOLOGICAL; NERVE TISSUE
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UNITED STATES GOVERNMENT
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(analysis); FATTY ACIDS, NONESTERIFIED
(secretion); GLYCERIN (secretion); HUMAN;**

Diabetes Literature—Author Index

**HYPOTHYROIDISM (chemically induced,
metabolism); IN VITRO; LIPIDS (metabolism);
MALE; NOREPINEPHRINE
(pharmacodynamics); PROPYLTHIOURACIL;
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EXPERIMENTS (analysis); ENVIRONMENT;
HYPOTHALAMUS (enzymology, physiology); IN
VITRO; LH-FSH RELEASING HORMONE
(biosynthesis); MONOGRAPH (mortality); RATS;
RIBOSOMES (metabolism); THYROTROPIN
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HYPHYSSEAL SYSTEM (physiology); LH-FSH
RELEASING HORMONE (metabolism,
secretion); MEDIAN EMINENCE (physiology);
MSH RELEASE INHIBITING HORMONE
(metabolism); NEURAL TRANSMISSION;**

**NEURONS (physiology); PHYLOGENY;
PITUITARY HORMONE RELEASING
HORMONES (metabolism); PROLACTIN
RELEASE INHIBITING HORMONE (secretion);
PROLACTIN RELEASING HORMONE
(secretion); REVIEW; SOMATOTROPIN
RELEASE INHIBITING HORMONE
(pharmacodynamics, secretion);
SOMATOTROPIN RELEASING HORMONE
(metabolism); SOMATOTROPIN RELEASING
HORMONE (secretion); SOMATOTROPIN
(secretion); SPECIES SPECIFICITY;
STRUCTURE-ACTIVITY RELATIONSHIP;
SYMPATHETIC NERVOUS SYSTEM
(physiology); THYROTROPIN RELEASING
HORMONE (metabolism, secretion); UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.).**

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TRIPHOSPHATE (metabolism); ANIMAL
EXPERIMENTS (analysis); ANOXIA
(enzymology); DINITROPHENOLS
(pharmacodynamics); FASTING; GLUCOSE
(metabolism); GUINEA PIGS;
HYDROXYBUTYRATES (metabolism);
INSULIN (pharmacodynamics); MALE;
MYOCARDIUM (enzymology); OXYGEN
CONSUMPTION; PERFUSION;
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MALE; TRIGLYCERIDES (blood).**

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Rogala H

HYDROXYMETHYLGLUTARYL COA REDUCTASES (physiology); HYPERCHOLESTEREMIA (familial & genetic); KINETICS; MICROSOES, LIVER (enzymology); NEOPLASMS (enzymology); PANCREATIC HORMONES (pharmacodynamics); REVIEW; SACCHAROMYCES CEREVISIAE (enzymology); SEX HORMONES (pharmacodynamics); STEROIDS (pharmacodynamics); THYROID HORMONES (pharmacodynamics); UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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SERUM INSULIN, PANCREATIC GLUCAGON AND GROWTH HORMONE LEVELS IN RESPONSE TO INTRAVENOUS INFUSION OF L-ARGININE IN PATIENTS WITH RECENTLY DETECTED JUVENILE DIABETES. Lawecki J, Symonides-Lawecka A, Rogala H *Pol Med Sci Hist Bull* 15: 177-82, Apr-Jun 76 (Eng) DL/76DEC337

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MODIFICATIONS IN THE RELEASE OF RAT GROWTH HORMONE IN VITRO AND THE

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[CHRONIC POLYNEURITIS ASSOCIATED WITH PIGMENTATION GROWTH OF COARSE HAIR, EDEMA, IMPAIRMENT OF GLUCOSE TOLERANCE AND AN INCREASE OF POLYCLONAL IGG. REPORT OF A CASE AND REVIEW OF LITERATURE] Shimizu T, Mannen T, Toyokura Y *Clin Neurol (Tokyo)* 16: 289-302, Apr 76 (Jpn) DL/76DEC84

CASE REPORT; CHRONIC DISEASE; EDEMA (complications); ENGLISH ABSTRACT; GLUCOSE TOLERANCE TEST; HAIR; HUMAN; IGG (analysis); MALE; MIDDLE AGE; PIGMENTATION DISORDERS (complications); POLYRADICULITIS (complications).

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[CHANGES IN THE ACTIVITIES OF RATE-LIMITING ENZYMES OF CARBOHYDRATE METABOLISM IN THE LIVER DURING DISTURBANCES OF HEPATIC CIRCULATION--WITH SPECIAL REFERENCE TO CHANGES ASSOCIATED WITH PORTAL LIGATION] Shimojo H, Takesue A, Aoe H, Tanaka A *Jpn J Gastroenterol* 73: 41-9, Jan 76 (Jpn) *DL/76DEC644

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OBESITY (metabolism); OXIDATIVE PHOSPHORYLATION; REVIEW; SMOKING; SODIUM (metabolism); THYROID HORMONES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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(biosynthesis); ISLANDS OF LANGERHANS (metabolism); LIPOTROPIN (biosynthesis); MODELS, BIOLOGICAL; MONOGRAPH (mortality); PARATHYROID HORMONE (biosynthesis); PEPTIDES (biosynthesis); PROINSULIN (metabolism); PROTEIN PRECURSORS (metabolism); REVIEW; SPECIES SPECIFICITY.

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ABSTRACT; FATTY ACIDS, NONESTERIFIED
(metabolism); GLUCOSE (metabolism);
HUMAN; INSULIN (metabolism); LIVER
DISEASES (metabolism); THEOPHYLLINE
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TRIPHOSPHATE (pharmacodynamics);
ANILINO NAPHTHALENESULFONATES;
ANIMAL EXPERIMENTS (analysis); CALCIUM
(pharmacodynamics); DOGS; ENZYME
ACTIVATION (drug effects); KINETICS;
MAGNESIUM (pharmacodynamics);
MYOCARDIUM (enzymology); OUABAIN
(pharmacodynamics); PHOSPHOLIPASE;
POTASSIUM (pharmacodynamics); PROTEIN
BINDING; SARCOLEMA (enzymology);
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Diabetes Literature—Author Index

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ADULT; BLOOD SUGAR (analysis); FEMALE; GASTRIN (blood); GLUCAGON (blood); GLUCOSE TOLERANCE TEST; HEMODIALYSIS (diagnosis); HUMAN; INSULIN (blood); KIDNEY (transplantation); MALE; NEPHRECTOMY; TRANSPLANTATION, HOMOLOGOUS (transplantation).

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Diabetes Literature—Author Index

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Vadillo JC

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NOREPINEPHRINE-INDUCED SHIFT IN LEVELS OF ADENOSINE 3:5-MONOPHOSPHATE AND ATP PARALLEL TO INCREASED RESPIRATORY RATE AND LIPOLYSIS IN ISOLATED HAMSTER BROWN-FAT CELLS. Pettersson B, Vallin I *Eur J Biochem* 62: 383-90, 16 Feb 76 (Eng) *DL/76DEC556

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ACHOLEPLASMA LAIDLAWII; AMPHOTERICIN B (pharmacodynamics); ANTIBIOTICS (pharmacodynamics); CATIONS, DIVALENT (metabolism); CATIONS, MONOVALENT; CELL MEMBRANE PERMEABILITY (drug effects); CELL MEMBRANE (drug effects, metabolism); CELL MEMBRANE (ultrastructure); CHEMISTRY, PHYSICAL; FILIPIN (pharmacodynamics); FREEZE ETCHING; FREEZE FRACTURING; LIPIDS (metabolism); MEMBRANES, ARTIFICIAL; MODELS, BIOLOGICAL; PROTEINS (metabolism); REVIEW; STRUCTURE-ACTIVITY RELATIONSHIP.

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CARDIOVASCULAR (metabolism); PREGNANCY COMPLICATIONS, HEMATOLOGIC (metabolism); PREGNANCY; PREGNANCY, ABDOMINAL (metabolism); PREGNANCY, ECTOPIC (metabolism); PREGNANCY, MULTIPLE; PREGNANCY, PROLONGED; REVIEW; SEX FACTORS; UTERINE NEOPLASMS (metabolism).

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ADRENAL GLANDS (physiology); ANOREXIA NERVOSA (diagnosis, metabolism); BEHAVIOR; BLOOD SUGAR (metabolism); BODY TEMPERATURE REGULATION; BODY WATER (metabolism); BODY WEIGHT; COMPARATIVE STUDY; FEEDING BEHAVIOR; FEMALE; FSH (blood); HUMAN; HYDROCORTISONE (blood); HYPOTHALAMUS (physiology); INSULIN (pharmacodynamics); LH (blood); LH-FSH RELEASING HORMONE (pharmacodynamics); MALE; PITUITARY GLAND FUNCTION TESTS; PROLACTIN (blood); REVIEW; SOMATOTROPIN (blood); THYROTROPIN RELEASING HORMONE (pharmacodynamics); THYROTROPIN (blood); VASOPRESSIN (pharmacodynamics).

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(pharmacodynamics); FEMALE;
GALACTOSAMINE (metabolism,
pharmacodynamics); GALACTOSE (metabolism);
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effects, metabolism); RATS.

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CLOSTRIDIOPEPTIDASE A; EPINEPHRINE
(pharmacodynamics); FEMALE; GLUCAGON
(pharmacodynamics); GLUCONEOGENESIS
(drug effects); GLUTAMATE
DEHYDROGENASE (metabolism); IN VITRO;
KUPFFER CELLS (drug effects, metabolism,
ultrastructure); LACTATE DEHYDROGENASE
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MELLITUS (metabolism); FATTY ACIDS,
NONESTERIFIED (blood); FEMALE; HUMAN;
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ESCHERICHIA COLI; LIPIDS; LIPOPROTEINS
(analysis); LIPOPROTEINS, HDL; LIPOSOMES;
MEMBRANES (ultrastructure); MODELS,
BIOLOGICAL; PROTEIN CONFORMATION;
PROTEINS; REVIEW; SOLUBILITY;
SPECTRUM ANALYSIS; T-LYMPHOCYTES
(ultrastructure); TEMPERATURE; UNITED
STATES GOVERNMENT SUPPORTED, N.I.H.);
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GLOMERULUS (drug effects, metabolism);
PHAGOCYTOSIS (drug effects); PROTEIN
DENATURATION; RATS;
RETICULOENDOTHELIAL SYSTEM (drug
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INFANT; INFANT, NEWBORN;
POSTOPERATIVE CARE; POSTOPERATIVE
COMPLICATIONS; SOMATOTROPIN (blood);
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VITRO; METIAMIDE (pharmacodynamics);
PENTAGASTRIN (pharmacodynamics); RANA
CATESBEIANA; SOMATOTROPIN RELEASE
INHIBITING HORMONE (pharmacodynamics);
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[THE TREATMENT OF CHRONIC INSULIN RESISTANCE IN ADIPOSE DIABETICS—INTERUPTION FOR A SHORT TIME OF DIET AND INSULIN ADMINISTRATION (AUTHORS TRANSL.) Vogelberg KH, Gries FA, Gruncklee D, Hensing J, Wiegelmann W *Munch Med Wochenschr* 118: 1037-40, 20 Aug 76 (Ger) DL/76DEC307

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THYROTROPIN RELEASING HORMONE INTERACTIONS WITH AN ANTERIOR PITUITARY MEMBRANE RECEPTOR. PP. 182-8. Wilber JF, Seibel MJ *In: Gual C, Rosenberg E, ed. Hypothalamic hypophysiotropic hormones. Amsterdam, Excerpta Medica, 1973. W3 Ex89 no.263 1973. (Eng) *DL/76DEC614*

ANIMAL EXPERIMENTS (analysis); BINDING SITES; BINDING, COMPETITIVE; HYPERTHYROIDISM (chemically induced, physiopathology); HYPOTHYROIDISM (chemically induced, physiopathology); IN VITRO; MALE; MONOGRAPH (mortality); NUCLEOTIDASES (physiology); PITUITARY GLAND (physiology); PITUITARY GLAND, ANTERIOR (physiology); PROSTAGLANDINS E (pharmacodynamics); RATS; RECEPTORS, HORMONE; STEREOISOMERS; THYROTROPIN RELEASING HORMONE (analogs & derivatives, antagonists & inhibitors, physiology); THYROXINE (pharmacodynamics); TIME FACTORS.

Wildenhoff KE

BLOOD KETONE BODY DISAPPEARANCE RATE IN DIABETICS AND NORMALS AFTER RAPID INFUSION OF DL-3-HYDROXYBUTYRATE. STUDIES BEFORE AND AFTER DIABETIC TREATMENT. Wildenhoff KE *Acta Med Scand* 200: 79-86, 1976 (Eng) DL/76DEC437

ACETOACETATES (blood, urine); ADOLESCENCE; ADULT; AGED; BLOOD SUGAR (analysis); COMPARATIVE STUDY; DIABETES MELLITUS (blood, drug therapy, urine); DIABETES MELLITUS, JUVENILE (blood, drug therapy, urine); GLIBENCLAMIDE (therapeutic use); GLYCOSURIA (metabolism); HUMAN; HYDROXYBUTYRATES (administration & dosage, metabolism, therapeutic use); INFUSIONS, PARENTERAL; INSULIN (blood, therapeutic use); KETONE BODIES (blood, metabolism, urine); MIDDLE AGE; OBESITY IN DIABETES (drug therapy).

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ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); BINDING SITES; BINDING, COMPETITIVE; CELL MEMBRANE (metabolism); IPROVERATRIL (pharmacodynamics); KINETICS; LANTHANUM (pharmacodynamics); MUSCLE PROTEINS (metabolism); MYOCARDIUM (metabolism); OUBABAIN (pharmacodynamics); PROTEIN BINDING; PROTEIN KINASE (metabolism);

RECEPTORS, DRUG; RUTHENIUM RED (pharmacodynamics); SODIUM (pharmacodynamics).

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ACIDOSIS, RESPIRATORY (metabolism, physiopathology); ADENINE NUCLEOTIDES (metabolism); ADENOSINE MONOPHOSPHATE (metabolism); ANIMAL EXPERIMENTS (analysis); CORONARY CIRCULATION; CORONARY DISEASE (metabolism, physiopathology); CYTOSOL (metabolism); FATTY ACIDS (metabolism); FRUCTOSEPHOSPHATES (metabolism); GLUCOSE (metabolism); GLUCOSEPHOSPHATES (metabolism); HEART VENTRICLE (physiopathology); IN VITRO; LACTATES (metabolism); MALE; MYOCARDIUM (metabolism); NAD (metabolism); NADP (metabolism); OXYGEN CONSUMPTION; PHILIPPINES (physiology); PHOSPHOCREATINE (metabolism); PRESSURE; PYRUVATES (metabolism); RATS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.).

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Willms B

URINARY CYCLIC 3,5-ADENOSINE MONOPHOSPHATE (CAMP) IN DIABETIC SUBJECTS WITH AND WITHOUT SYMPTOMATIC HYPOGLYCEMIA AND IN NORMAL SUBJECTS WITH INSULIN-INDUCED HYPOGLYCEMIA. Lilienfeld-Toal H, Willms B *Horm Metab Res* 8: 279-81, Jul 76 (Eng) DL/76DEC181

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GROWTH HORMONE AND SOMATOMEDIN A IN GIRLS WITH ADOLESCENT IDIOPATHIC SCOLIOSIS. Willner S, Nilsson KO, Kastrop K, Bergstrand CG *Acta Paediatr Scand* 65: 547-52, Sep 76 (Eng) DL/76DEC433

ADOLESCENCE; BLOOD SUGAR (analysis); BODY HEIGHT; EXERTION; FEMALE; GLUCOSE TOLERANCE TEST; HUMAN; INSULIN (diagnostic use); SCOLIOSIS (blood); SOMATOMEDIN (blood); SOMATOTROPIN (blood).

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Winand J

PROCEEDINGS: EFFECT OF PREINCUBATION ON THE METABOLISM OF (U-14C) GLUCOSE AND (3H)H₂O BY THE EPIDIDYMAL ADIPOSE TISSUE OF OBESE-HYPERGLYCEMIC (OB/OB) BAR HARBOR MICE. Winand J, Christophe J *Arch Int Physiol Biochim* 84: 207-8, Feb 76 (Eng) DL/76DEC476

ADIPOSE TISSUE (drug effects, metabolism); ANIMAL EXPERIMENTS (analysis); EPIDIDYMIS; FATTY ACIDS (biosynthesis); GLUCOSE (metabolism); GLYCERIDES (biosynthesis); GLYCERIN (biosynthesis); IN VITRO; INSULIN (pharmacodynamics); MALE; MICE; MICE, OBESE; WATER (metabolism).

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ADIPOSE TISSUE (drug effects); ANIMAL EXPERIMENTS (analysis); BODY WEIGHT (drug effects); DIETARY CARBOHYDRATES; EPIDIDYMIS; FATTY ACIDS (biosynthesis); FRUCTOSE (metabolism, pharmacodynamics); GLUCOSE (metabolism, pharmacodynamics); INSULIN (blood, pharmacodynamics); LIVER (drug effects, metabolism); MALE; MICE; MICE, INBRED C57BL; MICE, OBESE; SUCROSE (pharmacodynamics); WATER (metabolism).

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BLOOD SUGAR (analysis); CHILD; CHRONIC DISEASE; DIABETES MELLITUS (blood, occurrence); GLUCOSE TOLERANCE TEST; HUMAN; ILLINOIS; RISK; THYROIDITIS, LYMPHOMATOUS (blood, complications).

Wise P

DIET IN THE MANAGEMENT OF DIABETES. WHY RESTRICT DIETARY FAT AND PROTEIN? Wise P *Med J Aust* 1: 840-1, 29 May 76 (Eng) DL/76DEC297

DIABETES MELLITUS (blood, diet therapy, drug therapy); DIABETIC DIET; DIETARY FATS (administration & dosage); DIETARY PROTEINS

(administration & dosage); HUMAN; INSULIN (therapeutic use); LIPIDS (blood).

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[STUDIES ON PLASMA LIPIDS AS AFFECTED BY ORAL HORMONAL CONTRACEPTIVES] Riemer WD, Wittscheck R *Z Gesamte Inn Med* 30: 84-5, 15 Jan 75 (Ger) *DL/76DEC708

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ABNORMALITIES (physiopathology); AMNIOTIC FLUID; ANENCEPHALUS (physiopathology); EDEMA (physiopathology); FEMALE; FETAL DISEASES (physiopathology); FETUS (physiology); HUMAN; HYDRAMNIOS (physiopathology); MONOGRAPH (mortality); PRE-ECLAMPSIA (physiopathology); PREGNANCY IN DIABETES (physiopathology); PREGNANCY TRIMESTER, THIRD; PREGNANCY; ULTRASONICS (diagnostic use); URINATION.

Wocial B

[EFFECT OF SMOKING ON SERUM CATECHOLAMINES, FREE FATTY ACIDS AND CORTISOL] Wocial B, Ciswicka-Sznajderman M, Januszewicz W *Kardiol Pol* 19: 59-65, 1976 (Pol) *DL/76DEC646

ADULT; CATECHOLAMINES (blood); CORONARY DISEASE (blood); ENGLISH ABSTRACT; FATTY ACIDS, NONESTERIFIED (blood); HUMAN; HYDROCORTISONE (blood); MALE; MIDDLE AGE; NICOTINE (pharmacodynamics); SMOKING; STIMULATION, CHEMICAL.

Wolever TM

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EFFECTS OF A 3-DAY FAST AND OF ETHANOL ON SPLANCHNIC METABOLISM OF FFA, AMINO ACIDS, AND CARBOHYDRATES IN HEALTHY YOUNG MEN. Wolfe BM, Havel JR, Marliss EB, Kane JP, Seymour J, Ahuja SP *J Clin Invest* 57: 329-40, Feb 76 (Eng) *DL/76DEC592

ABDOMEN (blood supply); ACETOACETATES (blood); ADULT; ALCOHOL, ETHYL (pharmacodynamics); AMINO ACIDS (blood); BLOOD SUGAR (analysis); CARBOHYDRATES (blood); FASTING; HUMAN; HYDROXYBUTYRATES (blood); KETONES (blood); LACTATES (blood); LIPOPROTEINS, VLDL (blood); MALE; OXYGEN (metabolism); PYRUVATES (blood); TRIGLYCERIDES (blood).

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EFFECTS OF INSULIN INFUSION ON GLUCOSE KINETICS IN NORMAL AND BURNED GUINEA PIGS. Wolfe RR, Spitzer JJ, Miller RI, Elahi D *Life Sci* 19: 147-55, 15 Jul 76 (Eng) DL/76DEC282

ANIMAL EXPERIMENTS (analysis); BLOOD SUGAR (metabolism); BURNS (metabolism); FEMALE; GUINEA PIGS; INSULIN RESISTANCE; INSULIN (administration & dosage, blood); MALE; METABOLIC CLEARANCE RATE; SHOCK, TRAUMATIC

(metabolism); TIME FACTORS; UNITED STATES GOVERNMENT SUPPORTED, N.I.H.; UNITED STATES GOVERNMENT SUPPORTED, NON-N.I.H.).

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ADENOSINE TRIPHOSPHATASE (metabolism); ADENYL CYCLASE (metabolism); ANIMAL EXPERIMENTS (analysis); CHICKENS; HEART VENTRICLE (enzymology, ultrastructure); LEAD; MICROSCOPY, ELECTRON; MYOCARDIUM (enzymology); OUBAIN (pharmacodynamics); POTASSIUM (pharmacodynamics); SARCOLEMMMA (drug effects, enzymology, ultrastructure); SODIUM (pharmacodynamics).

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ADENINE NUCLEOTIDES (pharmacodynamics); ADENOSINE CYCLIC 3,5 MONOPHOSPHATE (pharmacodynamics); ADENOSINE (pharmacodynamics); ANIMAL EXPERIMENTS (analysis); ARGININE (pharmacodynamics); CALCIUM (metabolism); CELLS, CULTURED; DOSE-RESPONSE RELATIONSHIP, DRUG; GLUCAGON (secretion); ISLANDS OF LANGERHANS (secretion); RATS; TOXINS (pharmacodynamics); VIBRIO CHOLERAE.

Woo D

IDIOPATHIC HYPOGLYCAEMIA IN SIBS WITH MORPHOLOGICAL EVIDENCE OF NESIDIOBLASTOSIS OF THE PANCREAS. Woo D, Scopes JW, Polak JM *Arch Dis Child* 51: 528-31, Jul 76 (Eng) DL/76DEC473

CASE REPORT; FEMALE; HUMAN; HYPOGLYCAEMIA (etiology, familial & genetic); INFANT, NEWBORN; INSULIN (analysis); ISLET CELL TUMOR (complications, familial & genetic, pathology); MALE; PANCREATCTOMY; PANCREATIC NEOPLASMS (complications, familial & genetic, pathology); PREGNANCY.

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DIABETES MELLITUS (etiology, metabolism); HUMAN; NURSE PRACTITIONERS.

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ANIMAL EXPERIMENTS (analysis); ANTIBODY FORMATION; ANTIGENS; BLOOD SUGAR; GUINEA-PIGS; IMMUNIZATION; INSULIN (pharmacodynamics); ISLANDS OF LANGERHANS (transplantation); MALE; PANCREAS (pathology); PANCREATIC DISEASES (immunology, pathology); RABBITS; TRANSPLANTATION, HOMOLOGOUS (transplantation); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. .

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ANIMAL EXPERIMENTS (analysis); DIABETES MELLITUS (chemically induced, pathology); FEMALE; GOLGI APPARATUS (drug effects, ultrastructure); INSULIN (pharmacodynamics, therapeutic use); PANCREAS (drug effects, ultrastructure); RATS; STREPTOZOTOCIN.

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IMMUNOFLOUORESCENT LOCALIZATION OF SECRETIN IN PANCREATIC MONOLAYER CULTURE. Rufener C, Amherdt M, Bactens D, Yanaihara N, Orcl L *Histochemistry* 47: 171-3, 28 May 76 (Eng) DL/76DEC207

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THEORETICAL MODEL OF RUMINANT ADIPOSE TISSUE METABOLISM IN RELATION TO THE WHOLE ANIMAL. Baldwin RL, Yang YT, Crist K, Grieting G *Fed Proc* 35: 2314-8, Sep 76 (Eng) [77] DL/76DEC123

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ANIMAL EXPERIMENTS (analysis); BODY WEIGHT; COMPARATIVE STUDY; DIABETES MELLITUS (metabolism); LIPIDS (biosynthesis); LIVER (metabolism); MALE; MICE; MICE, INBRED C57BL; MICE, INBRED STRAINS; MICE, OBESE; ORGAN WEIGHT; TRIGLYCERIDES (metabolism); UNITED STATES GOVERNMENT SUPPORTED, N.I.H. ; WATER (metabolism).

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